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TABLE No. XXVIII.

Causes of Deaths of Mahomedans in the Town of Calcutta at different periods of life in the year 1882.

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ABLE No. XXIX.

Causes of Deaths of Other Classes in the Town of Calcutta at different periods of tife in the year 1882.

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ABLE NO. XXXI.

Causes of Deaths of Non-Asiatics in the Town of Calcutta at different periods of life during the first quarter of 1883.

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TABLE NO. XXXIII.

Causes of Deaths of Mired Baces in the Town of Calcutta at different periods of life during the first quarter of 1882-83.

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TABLE No. XXXIII- continued.

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ABLE NO. XXXIII.

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TABLE No. XXXIV.

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TABLE XXXV.

Causes of Deaths of Other Classes in the Town of Calcutta at different periods of life during the first quarter of 1883.

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#### APPENDIX.

# HEALTH OFFICER'S DEPARTMENT.

Report on the working of the Establishment for the quarter ending 31st March 1888.

The following cases were enquired into, the respective localities inspected by the officers of the department, reports furnished, and the cases finally disposed of :—

53 Complaints.

19 Registry certificates granted for dispensaries and drug shops.

7 Registry certificates granted for offensive and dangerous trades.

Confiscations consisted of the following:-

Tea ... 8,680 lb. Rice ... 2,291 mds. 17 Applications rejected for offensive and dangerous trades.

171 Applications attended to.

412 Applications for vaccination attended to.

163 Miscellaneous cases disposed of

Vermicelli ... 60 mds. ... 700 fb.

## TABLE No. XXXVI.

Comparative Statement of Cattle slaughtered at the Municipal Staughter-houses at Tengra during the 1st quarter of 1882-83.

#### TABLE No. XXXVII.

Comparative Statement of Collections made during the 1st quarter of 1882-33.

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Total	3,652	3	3	3,201	34	6	3,360	12	8)	10,214	12	6	3,977	0	8	3,519	12	8	8,566	7	6	11	,058	4	0

### TABLE No. XXXVIII.

Markets. - The prices of the principal articles of consumption have ranged as follows:--

Idutton in carcam, per Ib.		Beet in carcans, per fb.		Rice, per seer.		Dal, per seer.	Ghee, per seer.	Oil, per seor.	Fuel, per maund.		
First class.	Second class.	First clars.	Secondi class.	Table.	Ballam.	Average six kinds.	Best.	Mustard.	Firewood.	Charcoal	
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#### NUISANCE DEPARTMENT.

·The following statement shows the number of privies attended to by the municipal

Number in list on 31st December 1882 38,227 Ditto undertaken during the quarter 322 38,549 Less number in which services were discontinued 117 Total number now served .... Total for the corresponding quarter of 1882 38,432

Sanction was accorded for building 36 pucca privies in private dwelling houses and 758 privies in bustees. Every bustee privy was sanctioned on the standard plan, special care being taken to insure the provision of means of draining the privy and its surroundings. The connection of three privies with the sewers has been recommended, subject to the approval of the Engineer. Receptacles for washings allowed to 216 privies.

The following statement shews the notices that were issued under different sections of

the Act, and the action taken thereon:

		Notices.				the	red		ding
	SUBSTANCE OF SECTION.	Number pending on the 3.st December 1882.	Number issued during the quarter.	Total.	Number complied with	Number of cases in which action was taken by the department.	Number of cases transferred to Engineer's Department for action.	Parties absconded.	Number of cases pend with the overseera.
948 240 245	For alteration of privies	419	1,109	1,528	191 1 8	810	37		489 1 8
ent :	Total	429	1,117	1,546	200	810	37	1	498

The following statement shows the prosecutions instituted during the quarter:-

		1 8	Всимонь,		bas d		rhich		1 10
	SUBSTANCE OF SECTION.	Number of cases pending on the 31st December 1883.	Number issued during the quarter.	Total.	Number of cases warned discharged.	Parties abeconded.	Number of cases in wi	Amount of fines.	Number of once pending
238 280 197 233	For keeping filthy land ,, constructing privios without sanction flowing sewage , throwing or permitting to be thrown night-soil into filled up drain	5 6	847 15 2	352 21 2	66 15 1	44 2	207	Rs. A. P 202 8 6 11 0 6 2 0 6	35
	Total .	11	366	877	9%	47	212	216 8 6	36

Two thousand six-hundred and forty-eight applications of various kinds were received and attended to; 942 letters written to.

Statement showing the number of prosecutions under Section 26 of Act V (B.C.) of 1880.

PROSECUTION.											
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. Moocheeparah	901	***	40.0	***	8.51	8	*** ***	191111	8	3	
100				Total	941	8		*** ***	8	8	

### RESOLUTION ON THE REPORT OF THE SUPERINTENDENT OF EMI GRATION ON INLAND EMIGRATION FOR THE YEAR 1882.

GENERAL DEPARTMENT-INLAND EMIGRATION. Calcutta, the 3rd July 1883. RESOLUTION.

The Report on Inland Emigration for the year 1882.

The report has reached the Government punctually on the date fixed for its submission, and in this respect contrasts very favourably with its recent predecessors. It is the first prepared for the calendar year, that period having been substituted for the official year for the sake of uniformity with the Assam Report, and is submitted by Dr. Grant, who was in charge for nine months of the year. Dr. Richards officiated as Superintendent during the remaining three months.

2. The new Inland Emigration Act I of 1882, which came into force in January 1882, and was thus in operation during very nearly the entire period under report, has effected some important changes in the law. retaining safeguards against irregular recruitment, and the improper treatment of emigrants on their journey to the employer's estate and during the term of their engagement, it seeks to facilitate emigration to the tea districts by providing for an increase in the number of registering officers in the recruiting districts; by permitting garden-sirdars to recruit any number of persons, whereas they were formerly restricted to 20; by severing all connection between them and contractors; and by authorizing the employment of local agents to supervise the operations of garden-sirdars, or, under special license, to recruit emigrants themselves and despatch them to the labour districts without the assistance of sirdars. The term for which contracts may be made has also been extended from three to five years, and no restriction whatever is imposed on free emigration. The labourer may now proceed to the tea districts either as a free emigrant, taking work on an ordinary contract. or entering into a contract under the Act after his arrival, or as an emigrant recruited and registered under the Act. In the first case he is in no way subject to the Act; in the second he is subject only to such of its provisions as refer to the carrying out of the labour contract; and in the third he is completely under the Act from the date of his recruitment until the expiration of his engagement. The extension of the railway system, which has taken place in recent years, has much diminished the need for a stringent emigration law in the present day, and with further improvement in the means of communication, and the consequent shortening of the journey between Assam and the districts from which the emigrants are drawn, the continuance of any special law at all will probably be found unnecessary after the lapse of a few years. An important step in the premotion of rapid communication with the Assam Valley will shortly be taken by the establishment of a daily steam service between Dhubri and Dibrugarh, Messrs. Macneill and Company, who have taken the contract on a subsidy, have engaged to accomplish the voyage between these places regularly in four days.

3. The following tabular statement gives the total number of emigrants and their dependents who were registered and forwarded through Calcutta

and Goalundo during the last two years :-

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Veare.	Fig Calcutta for Assam, Cachar, Sylher, and Chir- tagoug.	Fig. Goalando for Gachar Sylbet.	1000 Tools (1000)	Fid Calcutta for Assam, Cachar, Sylbel, and Chil- tagong.	Fig Goalando for Cachar and Bylhet.	Total	Chase C coolies rectra and registered to labour districts of sud Sylhet, indepe	Potal aum by: registe
148	5,838	883	6,418 7,905	3,048	274 3,007	1,828 1,450	1,087	0,794 10,902

It has for some years past been considered desirable to discourage, as far as possible, recruitment through the agency of contractors, and promote in its place the general employment of garden-sirdars; and the provisions of the new law, permitting the appointment of local agents, were introduced especially to further this object. From the preceding statistics, however, it appears that the recruitment of coolies through contractors has not diminished during the past year. There has indeed been a decrease in the number of contractors, eight only having held licenses at the close of the year against 10 at the commencement and there was also a decrease of 15 in the number of their recruiters; but the actual number of emigrants recruited by them was larger than in the previous year. It is true that there has been an increase of over 600 in the number of certificated garden-sirdars, but they recruited a far smaller number of labourers than might have been expected. It is not to be supposed that these sirders were mostly idle, and there is therefore ground for thinking that the system of voluntary aided emigration, which was brought to notice by the Commissioner of Chota Nagpore last year, may have received a stimulus from the exertions of these newly licensed garden-sirdars. Until, however, the Lieutenant-Governor has before him the statistics of registration in Assam of free emigrants under sections 111 and 112 of the Act, it is impossible to verify this surmise, and the Superintendent of Emigration will therefore be instructed to place himself in communication with the Assam authorities with a view to ascertaining the extent to which this sort of emigration has

Dr. Grant brings the fact to notice that the percentage of licenses cancelled for misconduct rose from '90 in 1881 to 2.61, a result which he attributes to increased competition among recruiters, arising from continued difficulty in obtaining the number of labourers required, and consequent temptation to resort to irregularities. The malpractices, however, cited in the report, while they fully shew the necessity of still maintaining an official check over the proceedings of these recruiters, do not support Dr. Grant's views regarding the growing scarcity of emigrants. Misbehaviour on the part of recruiters will probably be removed by continued attention to employing men of good character, and visiting breaches of the law with adequate punishment. The number of licenses granted to local agents by the end of the year was 48; but as the first license was not taken until August, no opinion can as yet be formed of the working of this system. Out of a total of 2,329 garden-sirdars who received certificates during the year, 1,074 were placed under the control of local agents. An increase of 608 took place in the number of these recruiters, but one certificate only was cancelled against three in the previous year.

4. The returns summarised in the preceding paragraph shew an increase of activity in recruiting operations during the year, the total number of emigrants and their dependents registered being 10,902 against 8,794 in 1881. Of these, 6,409 were registered for transmission through the Calcutta depôts, 3,036 for transmission through the Goalundo depôts, and 1,457 to proceed in charge of garden-sirdars independently of the depôts. The chief centres of registration were—Burdwan (1,803), the 24-Pergunnahs (1,554), Furreedpore (656), Bankoora (299, Midnapore (255), and Beerbhoom (254), in Bengal; Shahabad (1,288), Monghyr (878), the Sonthal Pergunnahs (775), Gya (339), and Bhagulpore (210), in Behar; and Hazaribagh (752), Manbhoom (616), Lohardugga (534), and Singbhoom (218), in Chota Nagpore. Of the remaining 441 emigrants, 190 were registered in the North-Western Provinces, and the rest in Rajshahye, Nuddea, Pataa, Durbhunga, and Cuttack. The places of registration afford, however, no criterion of the locality to which the emigrants belong, registration being in a vast number of cases effected in a different district from that in which the emigrant has his home. This is particularly the case with regard to the registrations in the 24-Pergunnahs, Burdwan, and Furreedpore, as shewn in Statement VIII appended to the report. Of 1,519 persons registered in the first district for transmission through contractors depôts, only 14 belonged to the district, the rest having come from all parts of Bengal and Behar, from various districts of the North-Western Provinces and Oudh, and from Madras. Labourers gravitate towards Calcutta in search of work, and before they reach the capital, or while there, are induced to emigrate. In Burdwan only 173 persons were contributed by the district of emigrate. In Burdwan only 173 persons were contributed by the district

itself, out of 1,346 registered; and in Furreedpore not one of the 656 persons registered was a resident of the district. The whole of the latter evidently consisted of emigrants who came, or were brought, to Goalundo for registration. The Lieutenaut-Governor will be glad to have in the body of the report in future full details of the localities which supply the emigrants of the year. Information on this point is furnished in Statement VIII of the present report, but not in a complete form.

- 5. The 6,409 emigrants registered for transmission through the Calcutta depôts were reduced by 150, or 2.34 per cent, before their arrival at the depôts, the loss being due to the detention of 27 persons, the discharge of 8, and the desertion of 57 at the mofussil depôts, and the death of 1 and the desertion of 52 persons on the journey. These figures compare favourably with those of the preceding year, when 292, or 4.43 per cent, of the registered emigrants did not reach the depôts. The total number of emigrants accommodated at the depôts during the year, inclusive of 146 remaining from 1881, and 2 infants born in depôt, was 6,407. Of these, 102 were rejected, 389 were discharged, 492 deserted, and 4 died of cholera and 8 from other causes, making a total of 995 casualties; and of the remainder, numbering 5,412, 5,141 were despatched to Goalundo, and 20 to Chittagong, leaving 251 in depôt at the close of the year. The sanitary arrangements of the depôts are reported to have been satisfactory, and the Medical Inspector remarks that, though the actual number of deaths, altogether 8, was somewhat higher, the actual number of sick was lower than in the preceding year. Of the 8 deaths, 4 resulted from cholera. The rejections of emigrants were far fewer than in 1881, and this is no doubt correctly attributed to the fact that the Medical Inspector is no longer required to ascertain the labourer's physical fitness for work. The desertions and discharges, however, shew a very large increase, which is not fully accounted for by the explanation that in some cases coolies, especially old returned emigrants from the colonies, offer themselves for registration with the intention of merely securing a free passage to Calcutta. The Lieutenant-Governor desires that this subject may be more fully investigated by the Superintendent, and noticed at greater length in the next report.
- 6. Of the 3,036 emigrants registered for transmission through the depôts at Goalundo, 36 were detained at the mofussil depôts, 72 deserted, 13 died, and 164 did not arrive, the number actually received being thus reduced to 2,751. Similarly, the number despatched from the Calcutta depôts was reduced to 5,139 by one death and one desertion on the journey. The total arrivals at Goalundo during the year were therefore 7,890, and the addition to this of 52 remaining from the previous year, and 1 infant born in depôt, raised the total number accommodated in the depôts to 7,943. Out of these, 84 deserted, 23 died, 13 were released from their engagements, and 15 were rejected, leaving 7,808 available for despatch to the labour districts. The number actually embarked was 7,789, and 19 remained in depôt at the close of the year. The percentage of deaths, desertions, and detentions among the emigrants registered for despatch direct to Goalundo was smaller than in the previous year, but enquiry is necessary regarding the 161 emigrants who failed to reach Goalundo. The Superintendent should ascertain and report whether, as suggested by Dr. Richards, they proceeded direct to Dhubri, or, if not, what became of them. The instances of gross neglect of emigrants on the journey to Goalundo and Dhubri, which have lately been brought to the Lieutenant-Governor's notice, render it essential that an explanation should be obtained of every case in which an emigrant disappears on the way from the recruiting to the labour district. As regards the casualties at Goalundo itself, there was an increase in the percentage under all heads except rejections. The increase was specially marked in desertions.
- 7. In addition to the 7,789 contractors' coolies 30 coolies, collected by garden-sirdars also embarked at Goalundo. Of the total number (7,819), 3,689 proceeded to Assam, and 4,130 to Sylhet and Cachar. The Assam emigrants travelled by licensed steamers, which made 66 trips, carried an average of 56 persons on each occasion, and made passages averaging 16 days. The

greater prevalence of cholera during the year unfortunately caused a higher rate of mortality on these voyages than in the preceding two years, but this result seems to have been in no way attributable to any defects in the general arrangements of the steamers. The total mortality was 27, consisting of 21 cases of cholera and 6 deaths from other causes; but of the cholera cases no less than 19 occurred in a single trip, when the disease was very prevalent in the districts through which the vessel passed.

8. The Sylhet and Cachar emigrants travelled by country boats, the number for the former district being 1,228 and for the latter 2,902. The desertions and deaths on the way amounted to 137, or 3.31 per cent., against 78, or 2.63 per cent. in 1881, the difference between the two years lying almost entirely in the number of deaths from cholera. There were 101 such deaths in the past year, as compared with 51 only in 1881. The disease is said by Dr. Richards to have been principally contracted in the narrow rivers of

9. Of the 1,457 coolies registered to proceed to the labour districts in charge of garden-sirdars, 30 were conveyed to Assam by steamers from Goalundo, while 817 started from Kooshtea and other places for Sylhet, and 610 for Cachar. The casualties among the Sylhet batches were 5, and among the Cachar batches 21.

The operations of the year may, in conclusion, be thus summarised. The total number of emigrants and their dependents originally registered was 10,902, and this number was raised to 11,103 by the addition of 198 persons remaining from the previous year, and three infants born in depôt during the year. After allowance, however, for casualties of all kinds, amounting to 1,749, or 15.75 per cent., 9,354 were actually available for the labour districts, of whom 9,084 were landed there, the rest remaining in depôt at the close of the year. Of the 9,084 who reached the labour districts, Assam received 3,658, Cachar 3,898, Sylhet 2,008, and Chittagong 20. In 1881, the registrations were 8,794 in number, and there was a balance of 254 emigrants from the previous year, making a total of 9,048. From this number 1,156, or 17:19 per cent, were lost through casualties, and only 7,296 reached the labour districts, the rest remaining in depôt at the end of the year. Both the original registrations and the number of coolies landed in the labour districts were thus larger in the past year, and if it be considered that many emigrants proceeded to the labour districts without being registed under the Act, it will appear that emigration from these provinces to Assam is growing in magnitude.

11. The thanks of the Lieutenant-Governor are due to both Dr. Grant

and Dr. Richards for their efficient work during the year.

By order of the Lieutenant-Governor of Bengal,

A. P. MACDONNELL, Officiating Secretary to the Govt. of Bengal.

#### ADMISSION OF FEMALES TO THE CALCUTTA MEDICAL COLLEGE.

No. 418T.—G, dated Darjeeling, the 29th June 1888.

From—A. P. MacDonnell, Esq., Offg. Secy. to the Govt. of Bengal, General Dept.,
To—The Director of Public Instruction.

I am desired by the Lieutenant-Governor to acknowledge the receipt of your letter of the 4th instant, on the subject of admitting females to the classes of the Calcutta Medical College, and in reply to communicate to you the following instructions and remarks.

- 2. The question of the admission of females to the Medical College classes was first raised in 1876, and it then met with a favourable reception from Sir Richard Temple, who was Lieutenant-Governor. Subsequently, in 1879, the matter was again discussed; but on neither occasion had the discussion any practical results. Last year the Director of Public Instruction brought the question before the Council of the Medical College in connection with a wish which had been expressed to him by the parents of some young ladies that their daughters might be permitted to attend the medical classes. Mr. Croft advocated the admission of female students to the College classes; and, influenced by the advantages which, in his opinion, a body of qualified female doctors would confer on the community, even urged on the Council the propriety of admitting them on a reduced educational standard. Under the rules framed by the Senate of the Calcutta University, which are now in force, to qualify for admission to the Medical College, young men must pass the First Arts Examination Mr. Croft recommended the admission of female students to the same privilege on their passing the Entrance Examination. The College Council, however, refused sanction to the admission of females on those terms; and when it was afterwards proposed to waive any exceptional favour to lady competitors in the way of preliminary examination, and to admit them on the same terms as males, the Council affirmed its previous decision, and resolved not to admit females on any terms to the classes of the Medical College. This resolution of the Council you now report for the orders of Government.
- 3. The Lieutenant-Governor has considered the important question thus submitted to him, and has examined the opinions recorded upon it by the members of the Medical College Council. He regrets to say that in none of the opinions, except those recorded by Drs. Coates, Harvey, and Anderson, can he find any facts which bear examination or any reasoning which stands the test of criticism. All the force of facts and argument lies on the side of those gentlemen who favour the admission of females to the Medical College classes; and therefore, even had Mr. Rivers Thompson not formed, independently of this reference, a strong opinion on this subject, he would be bound to approve of that course which, on the papers before him, is recommended by an overwhelming weight of argument. But the admission of females to medical education is a matter on which the Lieutenant-Governor had already formed a clearly affirmative judgment, and he has therefore had less hesitation in overruling the decision of the Council of the Medical College than, looking to the weight which must ordinarily attach to the decision of such a body, he otherwise might have had.

4. On this question, looked at from the standpoint of general policy, as well as of individual freedom, there is not, in Mr. Rivers Thompson's opinion, any room for doubt as to the action which Government should take. It is indeed, in the Lieutenant-Governor's judgment, a subject of great reproach to the Bengal Presidency, in which education has made such wide progress, that it should be so far behind other provinces in matters regarding the medical education of native ladies; and this reproach is the more appreciable in that the backwardness of Bengal in this respect would seem to be due, not so much to the prejudice of native parents and guardians (which might in the present circumstances of India be only natural) as to the attitude which the Medical College Council have thought fit to assume. Already these provinces have suffered from the Council's failure to take a broad and unprejudiced view on this question; for the Lieutenant-Governor

learns to his regret that some Bengali ladies, fully qualified by educational attainments for admission to the College, have had to betake themselves to the more liberal Presidency of Madras, there to prosecute those medical studies from which the Council of the Calcutta Medical College had excluded them. It is, in Mr. Rivers Thompson's opinion, clearly opposed to the public good, as well as to legitimate private interests, that such a state of things should continue, and that the educational system of Bengal, progressive in other respects, should be illiberal and retrograde in this. Illiberality here has great and numerous evil consequences. It encourages zenana prejudices; it strengthens the barriers of caste; and it suppresses the natural and reasonable aspirations of Indian ladies to enter a profession which would find, in India of all countries in the world, a wide sphere of action and of beneficient service. Every day that passes widens our knowledge of the fact that among the native community there are women in every position of life who would prefer death to treatment by a male physician, and the misery caused by neglected, and unskillfully treated illness must be widespread and most lamentable. There is but one way by which this suffering can be relieved, and that is by the medical education of females; for in the present conditions of Indian life it would be useless to wait till opposition, based upon prejudices (if such they can be called), is removed. The Lieutenant-Governor therefore considers it his duty to support this movement; and he looks on the objections which have been made to it, on the ground of the difficulty of teaching mixed classes, or the alleged inaptitude of temales for the profession of medicine, as unsubstantial and obsolete. Experience gained in Europe, in America, and in Madras, has shewn that mixed classes can be taught without any bad results; while the aptitude of women for the study and profession of medicine is, in the Lieutenant-Governor's opinion, no longer open to discussion or doubt. Even if the aptitude of women for the profession of medicine were still an open question, it would be an inadequate objection here, for the fitness or unfitness of women to practice medicine can only be proved by experience. The issue-therefore is, shall it be put to that proof in Bengal? The ladies who apply for admission to the College will be the only losers if they fail in the trial: the community will be the great gainers if they succeed. For his own part the Lieutenant-Governor has no doubt they will succeed far beyond the expectations of their most sanguine supporters, and he looks forward to a not distant time when Calcutta hospitals shall be partly officered by lady doctors. And if the success of the principle be established in the capital, there is no reason why our medical schools in the provinces should not afford opportunities for a more general extension of the policy, with incalculable advantage to the country.

- standard of admission to the Medical College, the Lieutenant-Governor is entirely of your opinion that it should be negatived. Mr. Rivers Thompson would open the College doors wide to students of both sexes; but he would not specially favour either sex. Did the power of reducing the educational standard which qualifies for admission to the College rest with him, and not, as it does, with the Senate of the University, the Lieutenant-Governor would certainly abstain from exercising it, for he knows of no profession in which a liberal preliminary education, training the faculties of observation and thought, is more needed than in the profession of medicine. Mr. Rivers Thompson therefore thinks it would be conferring a fatal gift on the cause of female medical education to expose it to the risk of practical failure by withdrawing the necessity for that solid foundation of general knowledge on which the superstructure of technical information can alone be safely built. In conclusion, I am to say that, in now declaring females fully admissible to the classes of the Calcutta Medical College, the Lieutenant-Governor is confident that he can count on the loyalty and zeal of the Professors to bring his policy on this question to a successful issue.
- 6. All arrangements, in regard to separate seats, screens, and waiting-rooms for females, which it has been suggested may be necessary in order to give effect to these orders, can be safely entrusted to the discretion of the Principal, Dr. Coates.

Dated Culcutta, the 4:h June 1843.

From-G. Bellett, Esq., Offg. Director of Public Instruction, To-The Secretary to the Government of Bengal, General Department.

I HAVE the honour to forward copies of the letters and documents named in

This office No. 2823, dated 5th May 1882, to the Principal, Medical College. Letter No. 204, dated 10th June 1882, from the Principal, Medical

Letter No. 472, dated 31st October 1882, from the Principal. Medical

College.
Lotter No. 108, dated 12th May
1883, from the Principal, Medical
College, in original.
Lotter No. 125, dated 18th May
1883, from the Principal, Medical
College.

the margin, and to solicit the orders of Government on the subject of the admission of females to the classes of the Medical College.

In doing so, I beg to append a short account of what has taken place with regard to the question.

A little more than a year ago, on the 5th May 1882, Mr. Croft addressed to the Principal of the Medical College a letter, No. 2823. this letter he asked for the opinion of the Principal

and Council of the College as to the admission of females to the Medical College classes, and urged that they should be admitted on the ground of the great alleviation of suffering which would probably result if there were a body of qualified practitioners to whose admission to zenanas there would be no objection, as well as on the ground that if the Medical College classes were thrown open to females, a career of usefulness would be provided for those ladies, native and others, who are now passing the University examinations. Mr. Croft proposed to recommend to the University the admission of female candidates to the examination for L.M.S., if they have passed the Entrance examination.

4. Mr. Croft's suggestion was laid before the Council of the Medical College, and at a meeting of the Council, at which five members only were present, resolutions were passed by a majority of four adverse to the proposition, and recommending that, if medical education for women was found to be necessary, a separate college for women be established, white expressing the opinion that such education was not extensively demanded, and that an extension of the existing training in midwifery would be sufficient to meet the requirements of the case.

5. In communicating these resolutions to this office, the Officiating Principal of the Medical College appended the opinions of individual members of the Council, and from these it appears that on one point, viz. that of lowering the qualification for entrance to the college, the whole Council was

unanimously adverse.

- 6. Some members of the Council objected to medical instruction to women altogether; others to instruction given to mixed classes. The need for lady doctors was denied by some, while others asserted the general unfitness of the sex for the practice of this profession. The single supporter of Mr. Croft's suggestion was the Officiating Principal, Dr. Harvey (Dr. Coates, the Principal, who is a strong supporter of the scheme, being on leave), and I beg to refer you to Dr. Harvey's note, which winds up the collection of opinions for what seems to me to be a very satisfactory answer to all the arguments adverse to the scheme.
- On the 12th September, after Dr. Coate's return from leave, Mr. Croft forwarded the resolutions and opinion of the Council to the Principal for his opinion. Dr. Coates, in his answer, relied to a certain extent on the regulations of the University, which, under a misapprehension, he deemed to be of such force as to compel him as Principal to admit lady students. But he passes on to state the unanimous opinion of those connected with medical schools in Switzerland whom he had consulted, which were to the effect that "the presence of ladies in class-rooms had a refining effect on all present." stating his willingness to give a separate waiting-room and dissecting-rooms for the use of lady students, and his opinion that it did not rest with the Council to decide whether or no there is the demand for lady doctors, which is asserted to exist, he concludes by calling attention to a letter from the Principal of the Madras Medical College, which he encloses.
- 8. In this letter the Principal states that the Professors find no difficulty in lecturing to mixed classes, and that no signs of demoralization in consequence of the mixed classes had been observed.

9. When Miss Bose applied for admission to the Medical College, there was no bar in the form of want of qualification, she having taken her B.A. degree; and on her applying to me for permission to admit her, and on he stating that he believed the strong feeling of the Council to be against the lowering of the qualification, I suggested that the Principal should lay Miss Bose's case specially before the Council.

10. The result was, as you will perceive, only a reiteration of their unwillingness to admit female students on the part of the majority of the

Council.

11. The question, then, on which I solicit the orders of Government is whether the opinion of the majority of the Council of the Medical College is to carry sufficient weight to exclude those ladies who are otherwise qualified from entering the Medical College. It seems to me that the arguments which the opponents of the admission of females have advanced have been disposed of by the statements of Dr. Coates and Dr. Harvey, the evidence of the Professor in the Swiss medical schools, and the letter of the Principal of the-Madras Medical College.

12. The necessity for trained medical women is, I cannot doubt, completely established; and if there be this necessity, a path of honourable and profit-

able employment is open to such a class, if called into existence.

13. With regard to the lowering of the qualification, Mr. Croft was of opinion, as shown in his letter No. 2823, that for females it would be sufficient qualification if it were required that they should have passed the Entrance examination. It is with considerable reluctance that I state my dissent from Mr. Croft's opinion, but I think that in this matter the unanimous opinion of the Council is entitled to great weight. According to the rules now in force no student is permitted to enter the college unless he has passed the F.A. examination. The object of insisting on this is to ensure that the student's knowledge of English and general intelligence should be such as to ensure his being able to follow with understanding the lectures delivered.

. 14. I am inclined to think that the passing of the Entrance Examination does not sufficiently ensure this knowledge and intelligence, and I am doubtful whether it would be for the advantage of the female pupils themselves that they should start with a lower qualification than their male fellow-

students.

15. This, however, is a matter of opinion, and, as I have already said, I

unwillingly differ from Mr. Croft on the matter.

16. I may add that I feel some doubt as to whether the governing body of the University would agree to the change, which would, in consequence, have to be made in the University Regulations.

17. In conclusion, I beg to solicit that early orders may be passed on the subject, as the session of the Medical College begins on the 15th of this

month.

#### Rainfall, Weather, and State and Prospects of the Orops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different Districts of Benyal, as reported to Government airing the week ending the 30th June 1883.

Ew	No.	District, an		te of	Rainfall at Sudder Station in inches,	Character of the weather, state and prospects of the crops, and
13 HC	NGA		antri	ets.		The state of the s
	/ 1			30 83	3:37	Weather-rainy, with high wind. Ploughing and transplanting going &m
	1	Cuina			0.67	throughout the district. Public health fair, except in the town of Burdwan.
		Cutwa	•	***	0.61	
	2	Raneegung	91	30	1.02	Weather-cloudy and rainy with storms. Prospects of crops favourable.
DITT.	1	Bishoupore			0.81	due paddy being transplanted in some places. Indian-corn being sown.
		Muliara			4·23 3·12	Public health good.
YAB	/ 8	Beerbhoom		80	1.64	Weather-cool and showery. High wind in latter part of week. Ploughing and
N.		Rampore H	aut		2.54	sowing of rice erop in progress. Til being cut. Prices slightly higher.
BURLWAS	1.	Midnapore.		80	2 79	General health satisfactory.  Weather—cloudy and rainy with strong wind during the last two days. Agricul-
	Γ.	AR CENTED OF C.	P-0	80		ture making good progress. Public health good,
	Б (-	Hooghly,	0.0	80	0.91	Weather-cloudy, with high wind, Prospects of all cross good in the Sudder and Jehanabad sub-divisions, and improving in Scrampore. General health
		Bowrsh J	niv	2	2.78*	good. Cinic of wind on Thursday night (29th) from north followed by two days' showers
		Oolooberin	e/	***	2.50	weather Jute reported damaged by floods, along Damoodur. Aus paddy
		Central Di		10		growing. Sowing of amun going on. Price of rice high.
or.	1 6	24-Pergunnan,			8:49"	Weather-cloudy; attended with occasional showers of rain. Transplanting of
						amun paddy going on in low lands. Early crops doing well. Prospects good.
	7	Nudnes. J	une	30	0.20	Public hearth generally good.  Weather -rainy, cloudy and cool. Crops doing well. Fover unchanged; cholera
DIVE.	'	Roomliten	66106		2.25	has abated.
2		Meherpore		4 -	071	
5	)	Choondangs Ranaghut		***	0.80	·
2	8	Khoolua,	0.9	30 ,,	8.03	Weather cloudy, with many showers Prospects favourable. Ploughing going
PRIMIUBNOT	1 .	1		20	1.34	on, and some amun rice has been sown. Public health g od. Weather—cloudy and rainy. Rice crop doing well. Til being reaped Prospects
<u>ac</u>	9	Jessoro, Jironida	0.4	30 "	0.29	favourable. Public health good, except in Bongong sub-division where deaths
		Magura			1.84	from fever still continue.
*		Narnil Bongong		1.4	0 65	
1	1 10			30	2 27	Weather-much cooled down; a strong east wind blowing with drizzling showers
		11	uno	29 '85	3.45	at times. State and prespects of crops favourable. Bhadoi thriving well, and amun sowing still continues. Public health on the whole good.  Weather—cheudy and rainy. Prospects of bhadoi and sugarcano good. Jute
ni.	/ 11	, p	0110	20 00		site bely intured in Kuthraminore Chills by excessive rain
DIVE.	12	Rajalinhva, Nattore	Ø 1	80	1.12 Nil	Weather—cloudy and slight rain. Gales of wind for two days. Crops doing well.
-		Nowgong			0.81	
BEHAB	13		8+	30 .,	8.62	Weather - seasonable. Prospects of aurrice and jute good. Kaon and cheens
20		Kurigram Gaibanda		800	7:91	being reaped. Transplantsing of anus rice has begun. Cholera somewhat prevalent in some parts of the district.
72		Nilphanari			Sed A	•
CHOCH	1 14	Hogen,	01	80	0.98	Weather-continues cool and rainy. Sowing of amus continues, Til and kaon are being reaped. Public health good, except in four villages in Bogra than where choices has been reported.
AND	15	cubas.	4.5	80 м	1.26	Weather -warm and cloudy with strong easterly wind. Crops progressing
5	16	Darjeeling,		20	5.05	well throughout the district.  Weather - seasonable All crops doing well. There is still a little cholera both
HAZBHARYR			9	-	1	in the Tenu and Hills.
100	17	luquigures,	99	30 ,,		reported backward owing to heavy rain.
H		Couch Bohar,		29 ,	12.45	Heavy rain during early part of week, then a partial heat with occasional
	•	Up to 27	vn.		8.45	showers. Weather close and worm. Prospects of jute improved, Bitrs rice harvest going on slowly. Amus being transplanted. Cholera abating, but still
		up to 246	Ħ.	**		bad in places.
		Mathabhan			18 49	20.7
-		Meckligung up to 23r	U	• • •	14.02	
		Bastern //i	ntml-			port Mé
	18			30 '88	2:34	Weather - windy and cloudy Harvesting of til and ans paddy continues. Sowing
		Manickgung	ge		2.42	of mean paddy going on. Jute and sugareane thriving.
5		Ma a ngung		**	0 46	to the first that the
2	19	Furradapore.	,, 1	80 "	1.30	Weather very high winds during the last three days; very gloomy with frequent
CA		Goulundo Madaripore			1.00	showers. State and prospects of jute, paddy, sugarcane, &c., good. Public
DACCA DIVE	20	manual inde-	10 6	28 ,,	2 78	health very heir. Wenther-seasonable. Aus crop doing well. Cultivation of amun going on
	<b>(D</b> )	Mymenningh,		1043		rapidly. General health good.
1	18	Jamaipute	80 6	20 ,,	1.15	Weather- warm, with cloudy sky and occasional heavy showers; high east wind since evening of 28th. State and prospects of crops slightly improved. Rivers
		Kishoregun	go	***	1.37	risen very much during the week. General health good, except that cholera
		Atten Netrokona		***	2 34	continues in Sucrpur town.
		21000000000		***	0.04	

<sup>.</sup> For week ending 30th June,.

N	ĭo.	District, and d	nto i	of	Rainfall at Sudder Stationir inches.	Character of the weather, state and prospects of the crops, and
BEN	iga:	La —concld.	-			•
East	torn	Districts -concld.	y 8	'83	7.42	Weather-seasonable. Transplanting of ann and sowing of amun going on Prospects fair. Prices steady, Fever and cattle-disease bad in Cox's Bazar.
DIVE.	23	Nonkholiy, Jun	0 29	90	38	Cholera not yet abated.  Weather-variable; generally cloudy; rain scanty; at times very hot. Ass.
CHITTAGONG	84	Pipperah, Brahmanbaria	29	03	2·04 0·34	puddy ripening and amen puddy being transplanted generally.  Weather-rainy. State and prospects of crops good. Public health generally good
HITT.	25	Chandpore Hill ,	26		1.75	Heavy showers throughout the week. Jhum doing well. Cotton crop will be short, many of the young plants having been damped off.
3 (		Hill top orah. ,,	27	9.2	0.76	Weather-warm. Lands being prepared for transplanting of amun paddy Moong and augareane looking bright. Public health good.
BICH	AR					
1	26	Patna, Jun	0 30	*est:	1.62 1.46	Weather—hot. Sowings of bhodoi and paddy crops are being pushed on in som places Makai has commenced to garminate. A few cases of choices reported
	27	Gya	30	**	1·91 0·53	from Barh and Behar sub-divisions.  Wenther—overcast, with high winds and showers. Rice sowings are being briskly pushed forward Murwa is being transplanted Millet and course grain largely sown Sugarcane promises well. Choicea very prevalent and cattle
	28	Shahabad. Buxar	30	**	3·85 1·77	Weather - cool and moist in the east of the district, hot and dry at Bhabooah is the west. East wind. Prospects of crops favourable, except at Bhabooah, when
SA DIVE.	89	Binbooah Durbhunga, ",	30	*83	0 4 1·32	more only is wanted.  Wenther—cool and cloudy with high wind from north-east. The present flux weather following the rain is most favourable for makai, murca and other that lot crops. Low land moong much injured; also low land indigo in some factories. Transplanting of priddy going on vigorously. Prices stationary.
PATER	80	Mozuff-rpore, Hajespore Scetamurhee	80	40	2.61 0.52 1.90	Cholera disappearing e erywhere. Health generally good Weather—cool, with cast wind. All crops looking well. Bhadoi and aghas sowings in progress. Early rice looks promising Cholera has ceased in Hajeepore sub-division. General health much improved in Sudder and Secta murhee sub-divisions.
	81	Sarun, Sewan Gopalgunge	30	16 	8:36 4:61 1:49	Weather—hot and close, generally cloudy. Sowings of wakai, kodo, and raha going on Transplanting of murea has commenced. Indigo prospects good The rain has done much good to the crops in field. Sporadic cases of small
	33	Chumparun ,,	30	99	Nil	pox still reported from Gopalgunge, otherwise public health good. Price stationary.  Weather—hot and cloudy. Rain has fallen which will facilitate agricultural facilitate agr
3 4	88	1	e 30	183	1.19	operations. Sowings of bhadoi crops commenced. Indigo prospects good Public health satisfactory  Weather—cool and seasonable. Proparation of lands going on rapidly. Sowing of Indian-corn commenced in some parts. Prospects generally promising
E DIVE.	84	Bogusersi Jumui Bhaguipore, ,,	80	91	3.57 3.49 1.18	Public health good.  Weather—in first part of week het and sultry, but latterly cool; strong easterly winds. In north of district heavy ram, especially in Muddehpoorah, when 10-20 inches were registered in one day (25th instant.) Prespects good except in Muddehpoorah, where floods have damaged the young pandy. Fresl.
BHAULPORK	85	Purneah, "	30	92	1.17	seed is being sown. Health good, Weather-flue, with strong easterly wind. Prospects of crops very good. Indiging a little damaged. Health fair.
BHAU	86	Acrareuh Maldah, "	30		11:96	Ruinfall scanty. Weather showery and sultry for first four days of the week since then sky overcast, and a very strong casterly wind blowing. Itiver
	87	Southal Perghs	30	*1	0.91	rising. Standing crops doing well. Public health generally good.  Wenther—cloudy, showery and unsettled. Bhadoi and winter rice sowing in hand Transplanting going on in the castern low lands. A little small
		Deoghur Rajmehal Jamtara			1 29 2:62 0:84	pox in Deoghur.
		Pakour Godda			2 13	
ORI			e <b>2</b> 9		8.61	Wenther-cool and cloudy with heavy rain on the 28th. Young plants of bear
ORIBBA DIVE.	89	Pooree,	28	13	0.80	and sarad rice growing well; the forme being harrowed in some piaces. Common rice selling at from 24 to 28 seers per rupee. Public health good.  Weather—showery, with strong south-westerly breeze. Sarad sowings continue in some piaces, elsewhere pudding has commenced. Cotton being
ONIE	40	Balasore, ,,	29	,.	8.33	gathered. Common rice selling at from 25 to 42 sees per rupes. Public health good.  Weather—cloudy and rainy. Prospects of crops good. Sowing and ploughing
CHU	NA	NAGPORK.				going on. Sugarcane progressing well. Tublic health generally good.
		Agency.	29	'83.	1.21	Weather-cloudy. Good rain reported throughout the district. Sowing of
	42	Loharingga	80		1.7	paddy and bhadoi crops going on. General health good. Weather—rainy. Prospects of a rops favourable. Public health good.
	43	Pulamow Singbhoom,	29	0,	0.4	Weather-seasonable. Rainfall has been general and sufficient for present requirements. Everything doing well. Agricultural prospects favourable
	44	Manbhaom, Govindpore	80	**	1.90	General health good.  Weather—ratiny and cool. Sowings progressing everywhere. Rice seedlings promise well. Indian-corn, moong, rahar, &c., being, sown on uplands. Sugar cano flourishing. Public health go d.

#### Meteorological Report of the Province of Bengal

STON.								STATIO	N OBSE	RVATIO	DN8.					
DIVIS			AII	PRESSU	RE.	Wini	).			TE	PERATI	TRE.			idity eek.	fourt
· eterrological Division	DISTRICT.	Representative station.	Mein harometer height, 10 a.m.	Mean reduced to aca-level.	Variation frem mean.	Provailing direc-	Mean wind relo- city miles per day.	Highest during week.	Lowest during week.	Mean maximum temperature.	Mean minimum ten perature of week.	Mean daily tem- perature of week.	Veriation from normal mean of week.	Mean 10 A. M. temperature.	Average humidity at 10 A. M. for week.	Average cloud ambunt at 10 A. M. for week.
	. (	Gopulpore	29'672	20.055	***	8	196	8516	79'8	88*5	80.0	8810	-	88.8	83	68
. 1	Pooren	False Point	1876	*597	-001	Variable	285	80.8	70'6	87.9	77.0	88.8	-1.8	84'0	78	£ 74
ORIGIA.	Cuttack	Cuttack	*523	1608	0	Variable	79	B6'4	26-3	92'0	78'3	85'2	-1.0	86'6	75	9'8
ō (	Balanore	Balasore	*522	*880	dados	Variable	89	80.4	75'7	9819	77-8	8314	-	84'9	80	1947
ſ	South-West Midnapore	Saugor Island	1537	*869	033	8	442	02.5	74'5	89.8	78'9	84.2	-0.3	85*2	77	
	South 24-Paguanaha	Baugor Island	607	-											,	9.9
	Miduaporo	Midnapore	*448	-	-	SE	8	9615	763	98.8	77'3	8516	des	851	719	6.6
1	34-Pergunnaha															
BENGAL	Howah	Calcutta	1540	*870	-053	E	168	91.9	76.7	89.6	78.2	88.8	+01	86-7	81	9.0
	Hooghly	13 A		a decre		41	4.00	40.0	9972 # 4	03.14	MD+4	0011	810	0.00	aute.	
TEST .	Burdwan	Burdwan	*502	100	+1008	8	1.80	88.8 )	77'6	91.4	78.4	85.1	-0'2	84'9	77	9.6
SOUTH-WEST	Bankoora	Ranigunj					()	bservator	v not con	nmonae	1.					
100	West Burdwan	sensions					01	DOCT A WATER	y Mot con	DIMOTION						
90	Mossiliedabad	Berhampore	*534	.021	4-037	Variable	147'2	91-1	77'3 1	89.2	78'0	83 7	-1.0	8814	84	
	Nuddea			-												1/7
	Jessore)														. 16	-
	Khoolna	Jessore	*885	*618	+010	Variable	168'2	92.4	74.1	90.2	77:0	84.1	0.0	80.8	81	0.0
(	Chittagong	Chittagong	*601	*600	+016	8E	130	88*1	73'0	85*6	76*6	80.0	-1.8	88'6	80	7-0
	Chittagong Hill Tructu	Demagri						Obser	rvatory n	ot recor	ded.				144	- 1
5	Backergun)	Barrinal						Dit	to not	ь сошин	need.					
BENGAL	Noakholly	Noakholly,						Dit	to	ditto.					20	
	Purreedpore	Purreedpore						Dit	to	ditto.					1.5	
EAST	Daces	Dacca	*600	1614	+ 022	. 8	161	80.8	70.2	88.0	78'2	83'6	+0.1	85.1	78	7.4
	Commillah	Commiliah	'627	,685	-	Variable	P	85'0	7418	85.5	77'6	79'6	*****	89'4	83	63
į	Mymensingh	Mymousingh	'637	-	-	E	185	95.3	76-1	89'0	77'9	83.2		84'8	78	7'9
- [	Bogers and Pubna	Berajgunj						Observat								
3.4.5.	Rajahahye	Rampore Beauleali	*845	619	-	Vurmble	316	109'6	76'6	93.3	76'1	85'7	70	84.4	81	8.4
BEXO	Dinagepore	Dinagepore	*516	_	daten	Variable	147	01.3	78-1	80.8	77'7	894	-	84'8	70	816)
	Rungpore	Rungpore	1681	_	_	BE	123	91.8	64.0	87'9	74'7	81.4	- 1	68'4	88	7'1
North	Conch Behnr	Julpigorou	1323	-	-	P	161	91.0	75'1	80'2	76'2	81.2		80.0	1	010
	Darjeeling Hill Districts	Darjoeling	22'017	_	_	E	79	68:0	-	8,516	900	_	_	61.7	98	011
r	Purneah													u. /	-	9'1
23	North Bhagulpore	Purnouti	*507	.033	-024	Calm	81	92.7	73'4	80.0	77'4	83.0	-016	88.6	100	BL
Bensu.	Monufferpore	Dunklessen														
	Purbhunga	Durbhunga	'406	4939	+024	ESE	130	91'4	77'0	67'8	78*9	68'1,	-1.8	8319	86	67
Set TB	Chumparun	Motihari	1966	-	-	BE	-	80-1	-	87'8		-	com.	961	78	1.1
20	Sarun	Chupra	-	-	-	ESE	97	94'5	74'5	98'7	77.0	8514	-	84.6	97	65,0
	Shahabad	Delarco	201250	20'507	-	P	P	8814	69.0	89'0	78'9	81.7	-	88'8	70	016
	.(	Buxar	*849	-	-		154	98 9	.75*8	98:0	70.0	86'8	-	87.4	72	4.6
North Britan.	Gyn	Gya	*218	.903	+015	Variable	45	97'2	78.8	98.6	75-2	85'4	-1.7	87'1	71	87
der (	Potra	Bankipore	438	-621	+040	ENE	118	95.5	76.7	85.6	70.7	80.8	-1.6	847	82	917
20	South Bhagulpore	Bhagulpore	*467	'610	_	NB	93	91'4	76'0	8910	77-9	83'5		84'1	81	6'6
1	Moughyr)	Afana Variation										000		041	-	
	Manageletek	Naya Doomka	00.00	60.00		9*		Observat								
N.1.G-	Laboration	Hazaribagh	27.610	29-501	*4-025	Variable	170	90'5	79'6	8'8	74'6	80.0	-0.6	81.6	74	9.4
PORE	86	Ranches						Obser	valory n	ot starte	d.			-	-	
0.15	alternal Ashan M	Chybas an										-		-		
	Sinkubuoom	Chyon		-				Die	100	ditto	le .		1	1	1	

Explaintion of Summary — The normal means of air pressure and temperature are the arithmetical averages or means of the readings during the saturated are being represented by 100. A clear sky is doubted by 0 and an overcast stream, rainfall," the normal means are the numerical means or averages of the rainfall in that district determined from the returns sent in by the sub-different that district, (a.e.) the total rainfall at the sub-divisional stations in the district sending in returns divided by the number of stations. A rainfall

for the week ending 29th June 1883.

					DISTRICT	OBSERVATI	ONS.								
					' R.	AINVALL.									4
1			Sinc	e lat of mo	nth.		e 15th May	•	days week,	days	Representat	ivo	DISTRIC	T.	
	district.	Mean for	manuer.	Normal mean.	Cariation.	Mesn for district.	Normal Mean.	Variation.	Average number, of rainy days during the week,	Normal nur of week.			* **		
			1								Copulpore	)			1
	9'56	10	5'36	8*48	+6188	16.01	10.08	+5195	3.2	2.7	Fulse Point	3	Pourse	0.10	***
	8'56	11	1'06	6.32	+2'00	14/84	10'17	+467	513	42°4]	Cuttack		Cuttack	104	•••
	6*20	18	3.25	7.20	+6.95	14'87	9:59	+ 5:25	4.8	73.43	Bulanoro	111	Balasore	***	
	3121	1	3186	0.20	-0.21	11.11	12:06	- 0.63	4.7	3.5	Saugor Island	{	South-West M South 24-Pergu	idna	
	8:03		8'55	9.42	-2'87	7:05	11'85	-4'80	4*0	3.4	Midnaporo	44)	Midnapore		
									1			r	24- Pergunnaha	044	***
	1.83	1	9111	9.63	0.95	10138	12:70	-2.55	4.3	314	Culcutta		Howrah	100	
					1								Hooghly	***	001
	1'86	1	8'21	8'73	-0.2	12.28	10.08	1 +1'60	4'0	3.2	Burdwan		Burdwan	419	
				0 14								(	Bankoora	***	***
	2:05	15	2.44	10:79	+1'65	15'14	12:42	+ 2.74	3'4	3.3	Ranigunj	}	Beerbhoom	***	***
				2-76									West Burdwan	***	***
	1188	. ,	9.20	0.50	+0.21	13:72	11:71	4 2:01	2.7	31	Berlumpore	0.00	Moorshedabad		***
	1:04		7.78	10:10	- 2'37	11.13	13.22	-2'13	8 2	314	400000		Nudden	***	
				40 10			0.00					-	Jessore	***	441
	1161	1	8:30	12.20		10.73	16:11	-D'36	416	40	Jessore	}	Khoolua		
	60.0	4	2189	28.20	+13.80	59:51	33.95	+10:56	415	4.9	Chittagong	- 11	Chittagong	***	***
	2.58		8197	19:18	-0.51	20.83	23:42	-2'(3)	0.0	4'0	Demagri		Chittagong Hil	···	###
	3.26		4.83	20134	-5.21	17.98	24*74	-7'18	5.2	418	Burrisal		Backergunj		
	5.98		0.34	27.68	+12'76	43.17	83.43	4 9 74	3.6	4'6	Noakholly	***	Noakholly	***	964
	5.15		7:27	12.75	-5.48	11.10	17:31	-6:15	4.2	410	Furreedpore	***	Furroudpore	***	, ***
	1.96		7'57	18.18	-5.61	10'85	17:88	-7.03	3'5	6.1	Daces	***	Dacea	***	***
	6.16		8:21	17:50	-1.50	21-14	22:20	-1.08	4.7	4.7	Commillah	***	Commillah	844	***
	1.08		9.10	10.28	7"43	18'50	21.84	-8.28	5:3	4'8	Mymensingh	***	Mymensingh	***	***
	1.03		8:71	12.09	-3.38	13'89	145*11	- 2:12	218	3.3	Serajgunj	***	Bogra and Pub	700	***
	0174		100	10.43	2.51	12:40	13:20	- 0.49	4.0	3'4	Rumpore Bear	ulend			***
	1:76		1180	15:31	-4:51	14.83	18:39		4.7	3.3	Dinagepure		Dinagopore	***	, 001
	3.53		31516	21.16	-7:20	16:35	28*86	-12'00	4.8	41	Rungpore		Rungpore	994	***
	0 80	-		24 619	-7 50	4.0 1992						,	Julpigoreo	***	800
	9'81	21	80°7	32.02	6.60	31.41	4175	-10/84	514	515	Julphgorno	{	Cooch Behar		444
1	10127	.34	1.76	35'43	+9184	53156	44121	+ 9°34	616	5.7	Darjeoling		Darjeeling Hill	Dist	***
					4400	50 00						(	Purneah		
	7.86	25	5.08	10.82	+12.10	24'14	13.13	+11.01	3.6	5.8	Purneah	{	North Bhaguir	oo a	• •
												(	Monuflerpore		061
	1127	10	121	7.01	+8:10	18.98	H-10	+7'76	2.8	2.7	Durbhunga	{	Durbhunga	***	
	0186	-	176	a-57	+3.81	6.36	ran	-3:33	2.7	8:8	Motibari	***	Chumparun		***
	2.08		178	6'46	+3'27	9.86	7-36	4-2*50	2'5	2.7	Caupra		Sarun	008	***
									3.00		Duhreo	)		-44	44.
	2.16	. 7	*38	5'07	+2:38	7.88	5.23	+ 2:34	214	218	Buxar	6	Bhululad	9-04	***
	1'89		1.519	5107	+5'51	11.80	6.33	+4'97	8:0	5.8	Gyn		Gya	***	1
	1'33		157	8,00	+10'89	10.03	6199	+ 9'64	2.2	2.7	Bankipore		Patna		***
												(	South Bhagulp		00+
	2/11/2	10	168	6:38	4-400	11.77	7.70	+ 6101	3*4	2.0	Bhagulpore	{	Monghyr		***
	1700	11	18	8198	+2:19	13 00	10.68	+ 2143	815	216	Nya Doomka		Southal Pergur	tunha	
	0.28		'un	7164	-1.53	7.34	0.20	-2.02	2.7	2.6	Hausribagh		Hazurilmgh	***	***
												6	Lohardugga	110	44.
	1133	10	'56	7*5+	+3'02	12'14	8-01	+823	4'8	8.9	Ranchee	{	Mambhoom		
ļ	2196		24	11'91	-8.67	7.85	16:16	-6:81	4.0	3.7	Chyolmana	000	Singhbhoom	***	***

period for the past 12 years. The variations are negative when the mean for the week is less than the corresponding normal mean and positive when greater, by 10. The number denoting about amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head "district obsertional stations for the period in question during the past 12 years. The "means for the district" are the numerical averages of the rainfall returns received day is one on which at least an hundredth of an inch fell.

# Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 29th of June 1883.

					R	ALMPALI	70			Tot	al.		A		4
leterrological division,	District.	Station.	Saturday, 23rd June.	Sunday, 24th	Monday, 25th	Tuesday, 96th June.	Wednesday,77th June.	Thursday, 28th	Priday, 29th	Number of rainy days.	Rainfall of week.	Total min- full from lat to 29th June.	Average total rain- fall from let to 20th June.	Total rain- fall sums 15th May,	Average rainful from 13: May to dute.
RIGIA	Poores	Poorce Khurdah Banpur False Point	*****	****** ******	0.02	0180 0 95 0133	0.84	0°80 8°04	9:44 7:08 8:42 5:39	8 4 3 4	10:83 9:54 4:09 18:75	16:29 17:32 7:44 17:97	7:93 9:15 9:18 7:71	16'64 17'97 8'46 19'43	87 11) 20) 9)
	Cuttack	Jagatsingpore Cuttack Kendrapara Jajpore	0.50	0.30	0.00	1°43 0°30	0.03	1'79 2'70 2'8 1	5160 3160 1196	6 4 6	9-14 6-63 6-62	20°88 22°22 26°49	6'61 1) 57 7'84 9 38	84.77 15:22 14:11	91 91 111
	Ralasore	Chandbali Bluddruck Sorah Balasora Jelasora Baripodah	0'84	1.2 3.38 1.12 0.12 0.13	0.18	1'10 0'57 0'10	9-25 1-31 0-02 0-22 0-22	3-25 1-78 1-50 0-94 3-40 1-12	0°98 1°60 2°65 5°10	4 6 5 7	8°10 7 40 4 04 6°52 6°14 8°14	19185 13193 11.67 1918 18184	6:30 8:51 5:77 6:98 6:56 8:09	14:79 15:30 16:73	7: 8: 0: 8: 21:
DENGAL.	Midnapore	Contai Samer Island Tomlook Midnaporo Ghattal	0.18	0.18	0.521	0.08	0 47 1 00 0 90 0 03	0°76 0°20 0°27 0°18	3.74 0.17 2.40 2.30 0.95	6	5 05 1 156 8 80 2 70 1 2 61	9°85 31°78 6°70 6°02 6°94	918 911 8188 934 11106	14°18 13°20 7°80 0°38 7°17	11: 11: 11:
	24-Pergunnah	Diamond Har- tour. Alipore Jail Burrackpore Dum-Dum Burnset Busecriat	0.02	0.10	0.81 1.18 0.19	0.18	0°58 0°58 0°17 0°18	0°65 0°20 0°07 0°18	0°62 1°20 0°68 0°76 0°72 1°24	6 6 9 5 5 3 6	2.66 2.07 1.16 1.09 2.08	8161 0150 8140 8161 12126	10:01 10:11 10:82 9:80 9:62 10:23	8-96 0:06 10:72 8:98 9 89 13:96	13: 13: 13: 13: 12: 14:
	Howrah	Howrah		0'35	0.12	0.49	0.01	0.30	118	5 6	2.18	8150 7 00	*9:76 9:34	9127 8137	12.
	Rooghly	Serampore Hooghly Johnnabad	0.03	0'31	0'85 0'15	0'09	0.03	0.54	0183 0181 0173	B B	1.00	10:02 7:00 8:99	9154 8181 9148	10:98 14:37 9:90	11.
	Burdwan	Culus Burdwan Cutws Rancegungo	2'53	*****	0.58 0.18 0.58		0°07 0°80 0°30	0.10 0.03 0.03	0°57 0°09	3 5 4	0°92 3°87 0°70 2°03	7*77 11*82 5*56 18*58	95° 44 7 10% 12°76 7°76	11:83 14:84 12:15 83:48	10: 10: 10:
-	Bankoora	Bankoora Bishenpore Maliara Khatra	0°14 3°76 0°25	0.10	*****	0,7,40	0°13 0°27 2°20	0°18 0°81 0°10 0°07	0160 0150	6 2 6	1 03 0 81 6 23 3 37	0134 10170 11198 8160	9'74 11'89 11'01 12'16	7.68 13:09 18:55 10:84	11 13 12 13
	Beerbhoom	Bh. Soory Hetampore	0.85	0.03	*****	0.20	0129	0.05	0.03	6 2	1.01	28170 N100	10 03 12 81	22°55 11°67	11 16
	Nuddes	Honwong Ramaghat Kishingchur Chicadhinga Mckerpiro Kousitea	0.11	0°18 0°08 1°20	0'30 0'26 1 19 0'06	••••••••••••••••••••••••••••••••••••••	******	0'00 0'11 0'20 0'14 0'34	0:70 (1:25 0:03 0:82	3 2 5	0.70 1'02 0.52 1'39 0'73 1'87	8 75 10° 65 3°63 4 01 7°80 11°58	10:74 9:10 9:20 9:85 10:02 11:48	10:88 12:54 0:30 7:30 12:52 16:79	7 1 1: 11 14 12 15
	Khoolna	Satkira itagirint hitooina	0 18 U do	0108	0.51	u 10	0°10 0°17 0°02	0.28	1:20	5	1:92	10105	12108 14100 11100	13.01 12.73	18 18 18
	Jensore	Narail Jessore Jheisidah Magoorah	0145 0100 0185	0.48	0°05 0°03	0.04	0°10 0°04	0°10 0°18 0°18	0141 0178 0106 0180	6 6 5	2.62 1.09 0.89	8-56 8-61 8-71 9-80	11:00 12:91 1:58 10:91	1179 1410 982 1268	18: 16: 16:
	Moorshedsbad	Kandi Rampore Haus Berhampore Latingh Azungunge Jungipore Langula	9:90 1:01 0:44		*******  ******  ******	2°14	0°20 0°53 0°56 1°69 0°70	0:02	0'07 0 04 0'08 0'08	3 3 3 4 2 3	3:17 2:59 2:18 1:09 1:18 0:13 0:74	9'60 15'25 8'37 7'30 8'36 9'14 8'06	9183 9188 8156 9189 8185 8187	13:43 10:54 18:02 11:48 14:17 13:05 12:23	12: 11: 12: 11: 13: -4:
MET BENGAL	Chittagong	Cox's Bazar Unitinging	*****		J* 188	0.15	0.14	0.46	4191 4191	4 5	11'61	66°29 87°11	39143 23127	88.89 44.80	80.
	Chittageong	Rangamati Ruma Apartola	0.13	0.04	0°10 0°33	0°15 0°63 0°63	0°37 2°50	0.17	1:87	6	8.68.8 9.119	18°80 14°86	18.65 10.74 18183	91:43 19:48	23 23 18
	Backergunge	Patunkinily Perozepore Burrisai Bho.n	0.74 0.07 0.87	0.02	0180 0134 0117 0121	******	0:05 0:11 0:25 0:0	1185 0184 0164 1103	1'40 2'10 0'57 1'75	8 6 6	4/45 4/89 2/02 3/39	17:10 13:63 16:16 18:46	#5-41 10.59 10.50	19:60 14:88 14:77 21:01	28 19 20 20 20
	Noakholly	Noakholly		0.39	026144	0.75	40'0	0.18	8150 4126	8	6.14	3010g 41 70	20 67 25 65	41°17 44°20	82 81
	Purreedpore	Madaripore Furresupore Goalungo	0.40	0.19	0'03	,,,,,,, ,,, 4.	0.78 0.50 0.57	0143 016 017	0°79 0°20 0°10	4 6	3130 1132 1135	6'84 5 24 9'74	12:91 12:94 12:38	15.00 0.20 0.10	17 17 16
	Ducca	Munshigunge Dacca Maniekgunge	457 00	0.21	******	***	0°93 1°65 0°76	0.51 0.52 0.52	0.78 0.39 0.50	3 4	1°89 2 34 1°69	7'47 8'71 6'-0	16:30 13:3-1 9:79	10°15 11°37 8°67	21 1n 13
	Comilla	Comilla Chandpore Brahmunbern	0.03	0.80	0.40 6.42 0.12	0.11	0.20	0102 1175 0130	2:40 2:05 1:15	6 4 5	4:48 4:50 3:63	30°73 14 05 7°71	14:12 20:44 10:36	23 34 18 30 10 90	25 25 20
	Mymensingh	Kishoregungo Aim alymonamah Januapord	0 17 0 47	0.61	0'08 0'02 0'10	United	0.75	0°25 0°27	0:42 0:40 0:10	3 7	1'45 1'25 1'14	81R7 9144 8 47	20°03 14°78 18°24 14°30	18148 1 1714 10188	87 50 10

Explanation indicates that not rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the returns are wanting, the corresponding spaces in the total rainfall columns are left blank.

### Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 29th of June 1883—concluded.

	1				R	AIWVALI	ða .			To	TAL.				
Meteorological division.	District.	Station.	Saturday, 23rd June.	Sunday, 24th June,	Monday, 23th June.	Tuesday, 26th June.	Wednesday, 27th June.	Thursday, 28th	Friday, 29th	Number of rainy days.	Rainfall of	Total rain- full from lat to 29th June.	Average total min- full from lat to 20th June,	Total rain- fall since 15th May.	Average rainfall from 15th May to date.
orth Brugal	Pubna	Pubna Serajgunge	0.02	0.52	******	******	0155	0'50	0.41	4 2	1.58	10:35 8:46	11:87 10:69	12:44	15% 15%
2	Bogra	Sherpore	*****	44711	*****		0'57	0.02	0.08	3	0108	5133	11:61	8:16	16"
· »		Nowkhilla Bogra Panchbibi	0.32	0.35	0.00	*****	0.13	0.52	U168	5 1	1.90	7 31 9163	12'70 13'60 11'28	8'86 10'28 12'20	167 187 151
	Rajahahyo	Benulosh Nattore	0'21	0161	*****	*****	0'03	0.03	0.04	5	1:12 Nil	8.87 8.30	9189 10148	9:3t 9:15	12
324	Maldah	Maldah	0.08	0102	0123	0.33	0103	0139	0.05	7	1:11	¥*80	11.16	11.88	13
	Dinagepore	Mohadebpore Churamon Raigungo Dinagapore	0.08	0°24 0°55 1°95	0°33 0°71 0°40 1°21	0°21 0°07 0°19	0.09	0.05	0°07 0°02 0°04	3 5 5 0	0190 1130 1146 8149	6:22 31:20 12:57 12:91	17'45 18'80 15'22 10'86	8°97 18'60 14'14 15 97	200 1 5 1 p 20
10	Rungpore	Bhawanigunge: Runspo-e Korigram Baguogra	1'07 0 21 0'35	0/97 2/00 0/57 1/79	0.12 0.12 1.65	0:01 0:30 2:06	******	0.08 0.08 0.08	0.01	B B 6	2114 8160 1167 6149	15*146 10*28 10*13 17*69	15:21 18:65 22:07 28:47	21:31 17:23 22:72 23:14	20 25 30 37
	Julpigoree	Julpigoreo	5.85	6.24	3176	1.05	*****	*****	*****	- 6	18:16	33165	27.80	61:26	84
	Cooch Behar	Dinhatta Coroli Beliar Mickligungo Matabhanga	0.13 0.13	0:70 0:14 1:72 2:52	0 65 2:73 4:78 2:62	8 04 5 74 1 62 3 73	0.01	0°30 0°11 0°16	0°15 0°18 0°69 0°17	4 6 6 7	9132 9132 9133 12138	13/57 24/40 23/26 33/20	82 20 3.748 3671 3670	\$3160 3510 8175 60 55	43 44 40 43
	Darjeeling Hill.	Buza	3:7H 0:7H	5188 0188	3185 1104	2114 0138	0.44	401111	1.85	B G	15'50	49:25 88:69	47192 2214	81:33	61
ORTH BERAL	Purnesh	Kissengunge Armresh Furnesh	0°37 0°10	0:17 0:50	5°25 7'04 0'63	4°20 4°05 0°31	*****	10.0	0.12	3 4 5	8162 11766 1717	22163 28182 1010	15'04 12'91 11'87	20.48 11.36	26 25 25 25
	North Bhagul-	Maddaporo Sospool		*****	10 20 5 30	0.52	*****	0::10	0 25	4 2	11'00	29°51 23°72	6 80	48121	
	Durbhungs	Tajpore Diribhiiqua Madhubani	0.10	0.03	1.83	0.02	0:05	*****	0.08	8	1°23 2°05	14110	0.54 0.14	24 57 14:90 24:24	
	Mozufferpore	Bitamarhi Mozufferpore Hajipore	0°10 1°86	0.35	600 / h · · · · · · · · · · · · · · · · · ·	b \$0	0.23	0.10	449494	3 3 3	0°50 0°13 2 64 0 45	7:32 20'04	8°05 6°67	8:01 30:82	1
5	Chumparun	Motihari Bettiah Gopalgunge Sewan	0.12		0°81 1°05	0.04 0.28 1.00	0°05	0.63	0.01	8 2 3 3	0°19 0°10 1°39 2°51	8'18 474 4'30 7'58	5°05 8134 9100 8140	15.73 6.91 6.97 6.21	1
CTH BEHAR	Shahabad	Buzar	*****		0.35	3.50	0'07	*****	*****	5	2.34	11'87	7 . 3 5 de	7"H1 11'87	
	Bhallabad ,	Dehree Himboonh	0.22	*****	111 11	6,40 5,10	0.02	*****	*****	3 1	1 17 2 85 6 00 2 51	2:10	\$130 \$130	7 83	
E		Arrah			1'65	2,50		******	*****	2	3185	7 33	4173 5138	11/68	
· di	Gym	Arrungabad Gya Nowadah Jehanabad	0.11		0.43	0.99 0.18 0.99	0.68	0.10	*** **	8 4 8 2	9103 0164 0164 1 0 i	8138 14.57 8197 11132	6181 6188 6188 6171	1 1:00 16:40 8:14 11:33	
	Patem	Patna Discipore Beliar Barrh	0°97 0°10 0°02	*****	0.05	1.55 0.99 0.92	0.05	*****	*****	90 24 W %	1.70 1.12 0.82 1.05	14'77 11'05 20'05 14'39	6159 6118 5146 4153	14*02 17 10 20*05 14*44	
5-	Monghyr	Begooseral Monshyr Junus	0°50 2°23	*****	0.10 0.10	0.02	0.94	*****	*****	8 4 3	3°48 1°19 3°40	18.75 8.42 8.78	5180 6100 6146	90170 1014 6188	
	South Blugul- pore.	Banka	0.00	*****	0171	0.12	0°26 0°53	0.07	0.03	5	1.13	14'08	6:63	15.41	
	Southal Por-	Rajmohal	*****	*****	1.02	0.04	0.32	*****	257144		1.32	7186	7'50	8 140	1 1
		Nya Doomka	0°13	009442	******	0.48	0.95	0.70	0'06	3 3 8 5 3	0.23 1.99 0.28	8°47 17°21 13°75	7128	B 22	3
- 4 -		Jazutura		101***	******	0.14	0.83	0.40	0'18	3	0.83	11 57 11 06	9:01 6:11 8:59	15'11 11'06 12'65	10
ICHA NAG-	Hasaribagh	Pachamba Hazarthagh Somingurh Mahudi Hilis	0.02		0:43	0.10	0.20	*****	0.00	3 4	0.75 0.80	7 94 6'57	8144 6133 8178	8130 811	10
-	Lohardugga	Ranchi	0.18	0.0000	0.77	0 38	0.00	80000-	0131	8	1.70	12'34	7 95		1
	Singbhoom "	Chyelmun	0.02	0.00150	0.19	€*60 • n•87	0.37	490.00	,,,,,	8	3.02		7°73 8°70	11:50	5
	Manbhoom	Parulia	0.79	******		0.87	0:32	0.95	0.50	4	1190	6'21	8.13	7:35	1
	4.202 70	johindpore	0.13	*****	*****	*****	0.10	U'03	0.11	•	0.39	13:26 7:01	8.99	14 R0 8 54	3

Explanation indicates that no rain has fallen. If the reagn for any day has not been received, the corresponding space is left blank. If some of the returns are left ulank.

# SUMMARY OF METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, 29th JUNE 1883.

The chief feature of the meteorology of the past week has been the formation of another cyclonic vortex, which has given heavy rain to Orissa and the adjacent districts of South-West Bengal. At the beginning of the week under review pressure was increasing, and considerably above the average. To is accompanied a partial break in the rains; in other words, although ordinary monsoon winds continued, rainfall was local rather than general in character. Behar and North Bengal continued to receive fairly general rain. But in Orissa, South-West Bengal, and more especially in East Bengal, the rainfall was confined to local showers of short duration and generally limited in amount. This continued until Monday afternoon. On Tuesday morning the first indications were shewn of the commencement of the formation of a cyclonic vortex near the head of the Bay. The logs of ships already received shew that for one or two days previously weather had been squally, with strong monsoon winds and heavy rain over the centre and north of the Bay. The cyclonic vortex formed near the Sandheads and continued almost stationary until Priday morning, when it began to move to the westward. It crossed the Balasore coast about midnight, and was to the north of Cuttack, probably in the hill district of Northern Orissa at 10 A M. of Saturday. The first effect of its formation was to diminish the wind amount and rainfall in Bengal and Orissa. Skies, however, began to cloud over in Orissa and South-West and East Bengal on Wednesday, and fairly general rain commenced over that area on Wednesday afternoon and continued for the remainder of the week. The rainfall was excessive in Orissa, more especially the central districts, and heavy in the south-western districts of South-West Bengal with the continuance of the indraught. Skies were less clouded in North and Central Bengal and North Behar, and the rainfall there during the last three days of the week was small in amount and local in character.

The variations in the elements of meteorological observations have, as a consequence, been considerable. The mean pressure of the week is above the average by small amount, except for Orissa and the south-west districts of South-West Bengal, where the defect ranges from zero to—'05". The mean temperature of the week was generally below the average by small amounts, averaging 1° for the Province. The highest emperature registered during the week was 97.2 at Gya. The wind was variable in direction in South-West Bengal, Orissa, and Chutia Nagpur, in consequence of the influence of the cyclonic disturbance. In East Bengal south east winds have prevailed, and in North Bengal and Behar easterly winds. The indraught to the cyclonic vortex increased from Tuesday untill Friday evening, when unusually strong winds were blowing in South-West Bengal and Orissa. The greatest velocity of the wind at Saugor Island—40 miles per hour—from 3 pm to 5 pm.

The following table gives a summary of the temperature and rainfall data for the past

			Temper	RATURE.							RAT	MFALL			•	
	r week.	W Debk.	Ave	rage for t	week.	above (+)		Of we	wk.	R	niny	days.	Since of mo		Since	
METEOROLOGICAL DISTRICT.	Highest chemred during	Lowes, observed during	Of highest of each day.	Of lowest of each day.	of mean for each day.	Average mean of week abover or below (-) normal ocean	Average,	Normal sverage.	Fariation.	Average number for	Normal average num-	Variation from week.	Average.	Normal average.	A vertige.	Normal average.
North Belmr	86	5   71°1 8   73°0 6   04°6 2   69°0 5   73°4	88'1 90 7 86'4 80'1 82'0 80'8	78°G 78°1 77°2 76°7 77°3 77°8 74°4	83'4 84'5 81'8 82'0 84'0 84'0	-1'8 -0'8 -0'0 -1'7 -0'0 -0'0	3'42 8'42 8'42 8'42	14.83	-0.88 +0.00 -1.41	4'5 3'8 4'7 4'8 8'0 2'9 4'0	2.6 3.4 4.6 4.5 2.4 2.0 3.0	+1'9 +0'4 +0'1 +0'1 +0'6 +0'9 +1'0	13°94 10°59 14 88 15°35 10°00 9°87 7°68	7°98 (r'99 19°30 20°09 6°52 7°44 9°06	15-87 13-72 14-74 20-64 17-48 10-91 8-80	9:86 2:66 14:16 26:01 27:76 9:25

The rainfall of the past week has been very unequally distributed. Excessive rain was recorded in Orissa (more especially the northern districts) during the passage of the cyclonic disturbance across it. Heavy local falls of rain have occurred in the Purneah and North Bhagulpore districts of North Behar, the Julpigori district of North Bengal, and the Chittagong and Noakholly districts of East Bengal.

The rainfall has been in defect in all other districts. The deliciency is most marked in the central districts of North and East Bengal, and appears to be due mainly to lightness of the showers, as the number of rainy days is slightly in excess of the average over the Province.

\*howers, as the number of rainy days is slightly in excess of the average over the Province.

\*\*Baturday, 23rd June.—The barometer had fallen rather rapidly during the past 24 hours in Orissa, East and South-West Bengal, and risen slightly in North Bengal and Behar.

\*Pressure exceeded the normal by amounts varying from 05" at Calcutta to 11" at False Point. Temperature was increasing, and was normal or slightly in excess, except in South

and Central Behar, where the mean of the preceding 24 hours was 3° below the average. Light winds prevailed at the head of the Bay. Winds were normal in direction over the Province, but feebler than the average. The air was moister in Behar, Chutia Nagpür, and the northern districts of North Bengal, where skies were also overcast, and fairly general rain fell. Local showers occurred in Orissa, South-West and East Bengal. They were generally very light. Maliara (in Bankoora) received 3.76 inches, Burdwan 2.53 inches, and

Kandy (in Moorshedabad) 29 inches.

Sunday, 24th June.—Pressure had altered very slightly, but somewhat irregularly during the previous 24 hours. Temperature continued to increase, and was now either normal or slightly above the average. Light to moderate southerly winds prevailed at the head of the Bay, and gave light monsoon winds over the Province. The air was considerably drier in Behar and Chutia Nagpur, and the sky less clouded than on the 23rd, except in North Bengal, where it was overcast. Heavy rain was falling in the northern districts of North Bengal Julpigoree registered 6.56 inches, and Buxa 5.33 inches. Light local showers fell in East and South-West Bengal Orissa received a few heavy showers. Bhuddruck (in the Balasore district) registered the largest fall, 3.34 inches. No rain occurred in Behar or Chutia Nagpur.

Monday, 25th June. - Pressure had increased over the Province, and was unusually high It differed from the normal by amounts rauging from '09" at Durbhunga to '19" at Saugor Island. Temperature was slightly above the average. Light winds continued at the head of the Bay. Northerly winds were blowing in North Bengal in the morning. A considerable increase of humidity had again occurred in Behar. Skies were overcast in East and North Bengal and in Behar. Heavy rain fell in North Bengal and the eastern districts of North Behar. Muddapore and Soupool (in North Bhagulpore) registered 10'2 and 5'3 inches respectively, and Arrareah and Kissengunj (in Purneah) 7'04 inches and 5'25 inches

respectively. Elsewhere light to moderate local showers were received.

Tucsday, 26th June.—Pressure began to give way over the Province The full was greatest at the head of the Bay, in the north-west of which an area of barometric depression and of evelonic circulation began to form. Temperature increased slightly in Orissa and South-West Bongal, where the mean temperature of the preceding 24 hours was 3° above the average. Winds were light at the head of the Bay, and were backing through east to north. The air was very humid in North Bengal and Behar. The sky was less clouded, except in North Bengal, where it was overcast. The rainfall was unusually small in amount over Orissa, South-West and East Bengal, in consequence of the indraught to the cyclonic disturbance already established. Heavy general rain fell in the northern districts of North Bengal. Cooch Behar received 5.74 inches, Behar also obtained general rain. The largest amounts were registered in the Purneah and Shahabad districts.

Wednesday, 27th June.—Pressure continued to diminish rapidly. The fall of the barometer was greatest in South-West Bengal. The cyclonic vortex was more distinctly marked and was apparently to the south of Saugor Island and near the andheads. Temperature was normal in Orissa, slightly in excess in Bengal, and from 1° to 3° below the average in Behar and Chutia Nagpur. Winds were everywhere light. In South-West Bengal and Orissa they ranged in direction between north east and north-west, and indicated convergence to the cyclonic disturbance at the head of the Bay. The air was less damp in Behar and North Bengal than on the 26th. The sky had clouded over in Orissa and the adjacent districts of South-West Bengal and Chutia Nagpur Elsewhere it was free from cloud.

Light to moderate rain fell in Orissa, South West Bengal and in East Bengal. A few

Light to moderate rain fell in Orissa, South West Bengal and in East Bengal. A few light showers were recorded in North Bengal and North Behar, and light general rain in the Southal Pergunnahs and thutia Nagpar. The heaviest falls registered were 2.5 inches

at Agartola and 2 25 inches at Chandbali.

Thursday, 28th June—Pressure had again given way over the whole Province. The fall of the barometer was large everywhere and was greatest in the 24-Pergumahs and Balasore. These changes intensified the elyelonic vortex, the position of which was unchanged. Pressure was now below the normal by amounts ranging from 05" at Patna to 25" at Calcutta Temperature varied very slightly from the normal except in Orissa, where it was 2½° below the average. The air motion was much stronger than on the 27th, and was mainly dependent on the cyclonic disturbance. In South and South-West Bengal winds ranged between east and north-east. They were north at Balasore, and west south-west at False Point Light easterly winds prevailed in North Bengal, Behar, and Chutia Nagpur. Skies were overeast, and the air very humid in South Bengal and Orissa. The indraught from the north to the vortex had diminished considerably the amount of cloud and the humidity of North Bengal and Behar.

Moderate to heavy general rain fell in Orissa. Moderate rain was received in the whole of South-West Bengal and East Bengal. Light local showers fell at the majority of stations in North Bengal and at a few Behar stations. False Point recorded the large amount of

8.04 inches.

Friday, 29th June —A rapid fall of the barometer in South-West Bengal and Orissa had accompanied a further intensification of the cyclonic vortex, which was in almost the same position as it had been during the previous 48 hours. Pressure had increased by moderately large amounts over the remainder of the Province, and varied from the normal within wide limits ranging from 01" at Durbhunga 10 45" at Saugor Island. Temperature had fallen very rapidly. The mean of the previous 24 hours was from 6° to 10° below, the average in Orissa, 3½° in South-West and East Bengal, and 1½° in Chutia Nagpur and Behar. Winds

were unusually strong. Little change has taken place in the direction of the winds, which continued to indicate convergence to a centre near the Sandheads. The air was almost saturated with moisture in East and South-West Bengal, and in Orissa where skies were overcast. In all other parts of the Province, except the western districts of North Behar, no sky was thickly clouded.

Orissa received excessive rain. Amounts exceeding 5 inches were registered at several stations. Pooree recorded 9 44 inches. South-West Bengal recorded general rain heaviest in the south-western districts. Contai recorded the largest amount, 3.76 inches. The rainfall was also general in East Bengal, and was excessive in the Chittagong and Noakhally districts. A few light local showers of little importance were recorded in North Bengal and Behar.

> JOHN ELIOT, Meteorological Reporter to the Govt. of Bengal.

MRTEOROLOGICAL OFFICE, BENGAL, The 3rd July 1883.

#### VITAL STATISTICS OF THE FIRST CLASS MUNICIPALITIES IN BENGAL FOR THE WEEK ENDING 16th JUNE 1883.

During the week ending 16th June, the first class Municipalities in Bengal returned the birth and death-rates of 14.7 and 27.8 per 1,000, respectively, from among their population of 1,329,680 sgainst 16.0 and 32.0 per 1,000, respectively, in the preceding week ending 9th June, showing a small decrease in the birth ratio with a large decrease in the death ratio. The highest birth and death-rates were returned by the following Municipalities:—

	Birt	hs.			Deaths.		
			Ratio per millo.				Ratio per millo.
Comillah			30.8	Mozufferpore			62.0
Burdwan			29.0	Durbhanga			49.6
Chuprah			25.4	Patna			389
Durbhanga			23.6	Gya	* *		38.3
0				Purneah	* **		34.6
				Comillah			308
				Bhagulpore			30.8
				Arrah			28.7
				Suburbs of Ca	alcutta		28.3
			-	Chuprah			26 4
				Santipore			25.9
				Serampore			25.5
				Kishnaghur			25.0
mortality fro	m the seve	ral de	ath-cause	s was as follows	Batio	ner 1.000 (	during

The

				weeks	ending
				16th Juno.	9th June.
Cholera				 5.6	7.9
Small-pox				 •4	.7
Fevor		0 0		 11.7	13.5
Bowel-compla	ints	• •		 3.1	4.6
Injury				 .3	.3
Qther causes			• •	 6.2	5 2

indicating that, in comparison with the preceding week, the severity of cholera, small-pox and fever had on the whole declined considerably.

While small-pox prevailed most severely only in Gya and fever in Purneah, cholera

exhibited its utmost virulence in the following towns:-

						mille.
Mozufferpore			0 0	n 0		24.3
Durbhanga				• •		20.5
Arrah						11.9
Gya	• •		• •	• •		10.9
Chuprah						10.7
Patna		0 0		• •		7.1
Suburbs of Ca	loutta		• •	• •	a .	5.4
Howrah					0.10	3.8

It will be noticed that the area of greatest suffering from the abovenamed diseases this week was the same as that in the preceding week.

The highest and lowest death-rates in relation to Roligion and Age are shown below :-

According	g co	Religion.		According to Age.
		a o recipio alesto	Ratio per mille.	Ratio per mille.
Hindus		• •	28.9	Infants (under 1 year) 196.1
Mahomedans			24.1	Old men (60 years and up-
Christians	0 0		18.9	wards) 46·1
				Children (1 and under 5 years) 43.5 Adults (of 10 and under 15
				veers) 15.8

F. W. A. DEFABECK, Officiating Sanitary Commissioner for Bengal.

The 2nd July 1888.

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OFFICE OF SANITARY COMMISSIONER FOR BENGAL,
The 2nd July 1883.

Observations taken at the Alipore Observatory 24th to 30th June 1883. Results of the Meteorological

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Month.	Date.	Maximon is ent.	Number of hours of	Mean presance barometer at 32° Fahr.	Mean.	Vatimum.	lange.	Aintenna.	Mean wet bulb.	Vapour tension.	Dew point.	Humidity.	Prevailing direction.	Miles recorded.	Rain.	Waatsen,
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ne	24th	183.0	9	20 634	84.8	90°5	11.3	79.2	8012	0.868	78-8	81	S and SSW	108	0.02	Cloudy, p.
10	9ôth	168-7	2	-659	68.4	88.8	11.7	78.3	70.8	4 86	78.8	89	S and SSW	86	0.48	Cloudy, o, g, p,
,	20th	185.8	12	*505	84.9	ûl '7	13 0	78 7	80.3	1968	78.3	82	S and S by W	98	Nil.	Chieffy cloudy.
d	27th	150.8	6	*453	63-2	0 .3	11.6	787	79.6	.828.	77.9	81	SSW and E	159	0 88	Cloudy, p. d, lr
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	<b>39</b> th	102.5	Nil	.300	790	82.6	58	70.8	76.0	.699	76.0	91	E, E by N, and ESE	467	1.23	Cloudy, o, g, d,
0	80th	18916	27	*62:)	808	60.3	8:9	76-4	78.0	-920	76.7	87	ESE and SSE	263	0.89	Cloudy o, p, g,
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The maximum and minimum temperatures are obtained from self-registering thermometers. All the the mometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four feet above the ground.

The parometer readings are corrected approximately to those of the standard Newman's No. 86 formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III. IV, and V of the official tables computed in the Meteorological Office, and based on Regusult's modifications of August's formula.

The direction of the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot annve the ground.

o overcast, g gloomy, d drizzling rain, t thunder, p passing temporary showers, lr lightning reflection, strong wind.

JOHN ELIOT,

METEOBOLORICAL OFFICE, INDIA, The 2nd July 1883.

For Meteorological Reporter to the Government of India.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 24th to 30th June 1883.

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Монти.		Date.		Neab.	Marimago.	Range.	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	Hamidity.	Rain
1888.				0	0	0	0	0	Inches.	0	1%	Inches
June ,,	000 +6+ 44+ +6+ +60	24th 25th 20th 27th 28th 28th 20th	000	85.6 69.3 84.8 82.3 81.0 77.7 79.6	92:8 91:8 93:9 90:1 87:0 84:8 84:3	12 9 11 6 13 2 10 7 9 2 8 0 7 0	70.9 70.9 70.0 79.4 77.8 76.8 77.3	80:8 • 79:6 80:3 80:2 70:0 77:8 78:8	1004 1932 1933	78 1 78 5 78 6 70 4 78 2 77 1 77 8	78 88 81 91 91 98	Nil 0:58 1:33 0:41 0:05 1:09 0:69

		0
The mean temperature of the seven days		 81.9
The extreme variation of temperature during the seven days		 16.0
The maximum temperature during the seven days	100	 95.8
		0/
The mean relative humidity during the seven days		 89
		inches.
The total fall of rain from 24th to 30th June 1883		 4.16

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METROBOLOGICAL OFFICE, INDIA,

JOHN ELIOT,

The 2nd July 1888. For Meteorological Reporter to the Gout. of India.

Errata in the Weekly Report from 29th April to 5th May 1883.

TT.					l.	IYOKOMET	RY.			
		[	MEAR WE	T BULB.	VAPOUR	TENSION	Daw p	OINT.	Hem	IDITY.
-	Монти.	Date.	Erroneous.	Correct.	Erroneous.	Correct.	Erronegus.	Correct.	Erroneaua	Correct.
			o	0	Inches.	Inches.	0	0	Per cent.	Per cent.
(1911)		80th	71.0	76.0	0.673	0:803	67.4	72.7	67	78
May		1st	71.8	76.8	-664	876	67.0	76.3	63	83
.,		2nd	70 c	78.8	*848	1991	74.3	76-7	74	82

Also read 80 instead of 75 as the mean relative humidity during those seven days.

JOHN ELIOT,

For Meteorological Reporter to the Govt. of India.

# PUBLIC WORKS DEPARTMENT, BENGAL.

IRRIGATION BRANCH.

IRRIGATION OFFICIAL TEAR 1883-84.

Areas leased for Irrigation up to the end of April 1883.

	PO SERVICE OF THE PERSON OF TH		The khurned leases expired with the officed officed with the officed of the offic	いか			March 1985.					o No pert of the discharge in the Burar divesion was utilized for irrasion during meash. Main Western Canal series were closed from 6th to 16th April 1883.				3.
	RAINTALL, ISSS-63.	Up to end of month.	In.	178				35 63	121	-		20.0				
	RAIN	During month.	=======================================	1.69		:		89.3	1.21	1		123	1			
	BAINTALL, 1882-54.	Up to end of month.	ď	0.0				8.8	5.00	:		0.18		1		
	BA19	During month.	4	- 4				\$:41	2.00			- S	16	1	1	90
		Total.	Acr. 68	<b>8</b> 53	: :	163	123.423	53,485	108'6	ff3,2543	103,902	4,038 13,135 55,181 10,191	84,050	55,708	1,47,471	283,336
		Total.	Acr.	8 8	* :	298	10					25.85 5.85 5.85 5.85 5.85 5.85 5.85 5.85	1	11,667	6,862	11,672
		Hot.	Acr. 30	:	*	83		:				1997	9,580	*	2,558	į
DETAILS OF AREAS LEASED.	LEASES.	Biradoi.	Acr.		* * *		:		:	884 000					•	
ABEAS	ANNUAL LEASES.	Suear- B	Acr.	1 1	*		49	***				285 1,575	3,849	11,667	3,548	11,67.
11.8 OF	7	Kubbee.	Act.	<b>5 3</b>		140		*******			:				189	
DETA		Khur- reef.	Acr.						:							
	G 81	Khurrael.	Acr.		! !	:	123,823	53,435	8,901	63,236	143,462				63,236	250,722
	Pive	All crops. K	Acr.	: :								26.65 21.65 21.65 21.65 21.65 21.60	77,653	64.041	77,633	44,041
Proxi-		at came All	Aer.	159	286	1,638	4					888 6,404 83 83 8,415	10,144		11,792	1
An	Approxi-matemate of of of land under irris	during at month.	Acr. 190	200	16	611					:	1,256 2,595 10,000 65	13,916		14,527	
			C. R. Raynes 1007-33	28 W	8							• • \$ 8	-		*0 * 0 * 0	
_	Ere Charge		-	158°50 188°00 44°00	2 3	-		1.9	10		4	80 mg F				
	disc	month	C. R					-							- serve	6 1 1 0 0
	Rett- mated	charge.	C. ft. 1,569 572-13	1,300	727.16	1		1,411	2000			1,000 (Sept. 1000)	11.00		1	•
	CANAL		Kendrapara Goirri Pattamoondee	Section I Taldenda, 1st Reach, Tallenda, 2nd	High Lyvel, Section III.	Total	e corresponding t year.	Midnapore	Panebkoorah	Total	corresponding year.	Western Kain Arali Fastern Kain.	Total	recresponding year,	Grand Total	Grand Total of the correspond- ing period of last year
	District.		Square and survey	Cuttack	Balanore		Total of the corr period of last year.	Midnapore	Howrah		Total of the cor	Sinahahad { Patra and { Gys		Total of the cor puriod of last year,		Grand Total of
-	Oracus.			0:100		٠	Sign Property	Sonfā-	W estern			Son				

The 2nd July 1883.

O. R. S. Neill, Major, M a.C., Under-Secy. to the Gott. of Bengal, in the P. W. Dept.

#### Weekly Return of Traffic Receipts on Indian Railways.

#### EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 23rd June 1883 on 1,509 miles open.

	COACELE	o Trapyz	6.	MEROHANDISE TRA	PPIC.	MBA	- 1	Other carr	ing				TOTAL	A A P I I A	o RUN.
	Number of passengers.	Concit		Weight carried.	Recent	784.		(ostimute	od).	1	Total cart	i i ingr	Coaching.	Merchan-	Total.
he to the wek	236,361 8,196,888 5,431,940	8a. 2,50,910 146 58,91,601 61,12,511	0 7	28,40,399 10	8,93,359 591 1,74,95,607		8		3 1	0 4	Ra. 11,54,813 763 8,38,96,263	10 0	64,280 6 8 1,693,891	190,0202 3,509,419} 3,489,440	254,8000 4,002,3112 5,150,0200
ARDE.	199,778	9,06,185 136 69,48,306	18 0	21,84,976 0	5,72,087 379 1,60,72,778	0 10 :		49,305	11	4 7		8	7 40,7601	106,365	156,183

#### EASTERN BENGAL BAILWAY.

Approximate Return of Traffic for week ended 23rd June 1883 on 206; miles open.

0.3	COACHIE	G TRAFFIC.	MERCHANDISH TRAF		Other earnings	Total carnings.	TOTAL T	RATH-MILBO	RUH.
44.6	Number of passengers.	Conchinic Futto (1) to.	Weight carried.	Receipts.	(estimated).	Andre Germings.	Conching	Morchau-	Total.
1		Re. A. P.	Mns. v.	Ba. A. P.	Re. A. P.	Ro. A. P.			
or the week	60,130 301	87,465 0 0 lti 8 4	2,81,537 b 1,119 86	44,350 0 0 314 8 1	963 0 0 6 9 9	82,766 0 0 400 5 3	8,1088	6,335}	14,439
the wooks of half-	1,880,789	8,48,129 6 0	71,83,377	14,89,310 0 0	14,198 0 0	23,46,639 0 0	167,292	212,787	380,0201
for 20 weeks	1,412,898	8,80,594 0 0	74,16,914 0	15,83,660 0 0	15,146 0 0	24,29,400 0 0	175,3961	219,0791	394,400

The traffic for corresponding period of previous year was not recorded; it was embraced in that for 13 days ending 33th June 1883.

Includes Ma. 299 on account of Revenue stores.

#### BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

		Yumaah	RECEIPTS FOR	MERE SERA	TOTAL RECEIPTS	FROM ISTJANUARY	Manal Inc.	Total	Percentage
Na	me of Railway.	Length opan.	20th May 1682.	19th May 1888.	To soth May 15sy.	To 19th May 1883.	Total increase in 1868.	decrease in 1883,	increase or decrease.
Non	thurn Bungal	Miles.	Rs. A. P.	Re. A. P.	Ho. A. P.	R4. 4. P.	Ro. A. P.	Rs.	Bs.
Nor	and astern	280 1668 63 274	31,340 0 0 16,553 0 0 3,233 0 0 1,276 0 0	35.562 0.0 15,680 0 0 5,217 0 0 1,637 0 0	7,59,218 0 0 2,70,431 0 0 01,888 0 0 28,327 0 0	9,24,489 0 0 8,19,513 0 0 1,14,144 0 0 33,194 0 0	1,65,241 0 9 48,042 0 0 44,210 0 0 4,867 0 0	******	+ 22 + 15 + 63 + 17
3	pal	460	80,893 0 0	61,106 0 0	11,33,874 0 U	13,91,310 0 0	2,57,430 0 0	*****	+ 23

#### DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Weekly Statement of Traffic Receipts.

1-	BECHIFTS FOR	WHER MUDING	TOTAL RECEIPTS	PROM 1st JANUARY	Total increase	***************************************	Percentage
	2-1 May	sith May 1883.	To 27th May 1882.	To zath May	in 1883.	Total decrease in lass.	increase or detrence.
-	R4. A. P. 8,721 4 7	Ru. A. P. 8,549 14 6	Rs. A. P. 1,30,200 15 0	Re. A. F. 3,45,268 7 8	Ba. A. P. 4,007 S 5	Re. A. P.	48)

c 1883.

GILLANDERS, ARBUTHNOT & Co., Agente.



# SUPPLEMENT TO

# The Calcutta Gazette.

WEDNESDAY, JULY 11, 1883.

#### OFFICIAL PAPERS.

a. Cubscribers to the Gazerre way receive the Sufflement separately on payment of Six Rupees annum if delivered in Calcutta, or Twelve Rupees if sent by Post,

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#### DRAINAGE OF THE KRISHNAGHUR MUNICIPALITY.

No. 721T-M, dated Darjeeling, the 29th June 1883.

From-Colman Macaulay, Esq., Secretary to the Government of Bengal, Municipal Department,

To-The Commissioner of the Presidency Division.

AM directed to acknowledge the receipt of your letter No. 29MM, dated the 14th ultimo, submitting a copy of a letter from the Chairman of the Krishnaghur Municipality, in which he reports that local subscriptions have been promised to an amount of Rs. 15,000 only towards the cost of the scheme for the improvement of the drainage of the municipality by excavating the bed of the Unjona khal. To meet the total cost of carrying out the project, which has been estimated at Rs. 1,15,000, the Municipal Commissioners request that a grant-in-aid of Rs. 50,000 be sanctioned from the Provincial Revenues, and that the balance of Rs. 50,000 be advanced to them as a loan to be repaid in 15 years. You are of opinion that the amount of local subscription promised is not creditable to the public spirit of the inhabitants, and you consider that such an appeal to the liberality of Government is out of place on the part of the Municipal Commissioners and the residents of the town, who have shown so little real desire to carry out a sanitary measure of vital importance to their well-being. You are therefore unable to recommend the

2. In reply, I am directed to say that the Lieutenant-Governor is unable to accept the proposals of the Krishnaghur Municipality. The contribution which they propose to make towards the cost of the project is altogether insufficient, and is incommensurate with the urgency with which the prosecution of this work was pressed upon the Government by the residents of the town and of

the district on the occasion of the Lieutenant-Governor's last visit to the station. Out of the estimated cost of the work, which appears to be very necessary for the sanitary improvement of the town and its neighbourhood, the Lieutenant-Governor promised to give, as a Government subsidy, half a lakh of rupees if the people were prepared to raise by subscriptions an equal amount, and to contribute the balance of Rs. 15.000 from the municipal resources. Mr. Rivers Thompson is prepared to abide by this promise, but he cannot go beyond it in view of the claims of other places upon Government, and the impossibility of burdening the public resources with any targer charge on behalf of the residents of Nuddea. If they cannot raise the required half lakh of rupees by subscription amongst themselves, the Municipal Commissioners should go into the open market for a loan. This is the course which has been adopted by the municipalities of Burdwan, Bhagulpore, and other places for the introduction of important municipal improvements, and there are no grounds for treating Krishnaghur exceptionally.

No. 29MM, dated Alipore, the 14th May 1888.

From-J. Monro, Esq., Offg. Commissioner of the Presidency Division, To-The Secretary to the Government of Bengal, Municipal Department.

WITH reference to this office letter No. 166Ct. MM, dated the 29th January last, I have the honour to forward herewith copy of a letter No. 394LF, dated the 3rd instant, from the Magistrate of Nuddea, furnishing certain information on the subject of the improvement of the river Unjona.

2. The outcome of the protracted discussion regarding the clearing out of the bed of the Unjona amounts to this, that the amount of local subscriptions promised is Rs. 15,000, that the cost of land will be nil, as that item will be defrayed by the landholders, and that the balance of one lakh is to be contributed by Government in the shape of a free gift of Rs. 50,000 and a loan of half a lakh.

3. This result is to my mind most disappointing in a place like Kishnaghur, which claimed such a prominent place amongst those towns which desired the boon of self-government. On the first occasion on which an opportunity has been afforded to the municipality of showing their public spirit, that body shows an unmistakeable inclination to abstain from all appearance of taxation to carry out a work of primary importance, and virtually makes an appeal ad misericordiam to Government.

4. I have not the names of the subscribers before me, and cannot therefore say how far the people themselves have come forward to carry out a

work which all admit to be of vital importance to their well-being.

5. As regards the land (most of which belongs to the Nuddea Raj), it is questionable whether the Court of Wards has the power so to alienate lands. This point has recently been raised in another case, and it is doubtful whether

we can legally make such a grant of land belonging to a ward's estate. 6. With regard to the loan proposed, the municipality say that they can afford to pay it off in 15 years. Nothing is said as to how they propose to defray the interest, or how they intend to create a sinking fund with which to wipe off the principal. It seems rather to be assumed that the loan will be given without interest, otherwise I fail to understand how it is proposed to pay off a loan of Rs. 50,000 bearing ordinary interest in 15 years by instalments. of Rs. 4,000 per annum. If it is proposed that Government should give this toan without interest, then this scheme resolves itself into an application to Government for an annual gift of Rs. 2,000, calculating interest at 4 per

It is also to be observed that the Municipal Commissioners do not propose to tax themselves in any way to pay for this boon. They merely propose to set sside Rs. 4,000 of their present limited and insufficient income, and curtail expenditure. That they will be able to do this without starving other departments and reducing other branches of their administration to a state of

inefficiency, I very gravely doubt.

8. I cannot recommend Government to assent to the proposal as at prosent made. It seems to me that such an appeal to the liberality of Government is out of place on the part of those who have shown so little real desire to carry out an important sanitary work, except at other people's expense. I think it would be an extremely liberal offer if Government were to grant a sum equal to what the people themselves subscribe, leaving them to find the balance by a loan raised in the public market, as has recently been done by the Burdwan Municipality. For this loan the municipality would have to pay, and I see no reason why Krishnaghur should have a scheme intended to benefit the town without payment.

No. 394LF, dated Krishnaghur, the 3rd May 1883.

From-W. V. G. TAYLER, Esq., Magistrate of Nuddea, To-The Commissioner of the Presidency Division.

With reference to your No. 18M M, dated the 21st ultimo, regarding the improvement of the river Unjona, I have the honour to inform you that a sub-committee appointed by the municipality of Krishnaghur for the purpose of raising subscription for the Unjona excavation by their earnest appeal to the inhabitants have got promises to subscribe to the extent of Rs. 15,000. They have not attempted to realize the amount, because, as the carrying out of the scheme, involving as it does the outlay of more than a lakh of rupees, depends entirely upon the assistance which the Government is willing to give, it would be premature to realize the subscriptions unless the scheme be really undertaken. They have, however, every reason to believe that the amounts subscribed will be paid as soon as a favourable really in received from Government.

favourable reply is received from Government.

2. The lands in the bed of Unjone principally belong to the estate of the Maharaja of Nuddea, and the manager on behalf of the Court of Wards has signified his consent to its appropriation for the purpose of the canal. The owners of the tanks, which are also situated within the bed, are also willing to make a similar concession, so that, if the scheme be undertaken, it is almost certain that no compensation will be claimed by the land-

8. The Municipality of Krishnaghur will be able, by curtailing their expenses on other heads to contribute annually the sum of Rs. 4,000 in order to liquidate a debt of Rs. 50,000, provided this amount be advanced as a loan by the local Government. This loan they propose to pay off in 15 years.

loan they propose to pay off in 15 years.

4. There will be still a deficiency of about Rs. 50,000 if the excavation be undertaken in the manner recommended by the Superintending Engineer. The Municipal Commissioners are anable to see their way towards raising such a large sum. They therefore pray that the amount may be given by the Government as a free gift for the purpose.

5. The Municipal Commissioners hope that the Commissioner of the Presidency Division will be pleased to lay these facts before His Honor the Lieutenant-Governor of Bengal, and to recommend that Rs. 50,000 be advanced as a loan, and Rs. 50,000 be granted from the provincial funds for the improvement which the Municipal Commissioners believe will add materially to the health and cleanliness of the town.

#### ANNUAL REPORT ON THE ADMINISTRATION OF CIVIL JUSTICE IN THE SONTHAL PERGUNNAHS FOR 1882.

## RESOLUTION.

Darjeeling, the 80th June 1883.

READ

The Annual Report on the Administration of Civil Justice in the Sonthal Pergunnals for 1882.

Read also-

The Reports for 1880 and 1881, and the orders of Government recorded thereon.

The following statement shews the progress of litigation in the Sonthal Pergunnahs during the past three years:—

	Interven.		DISPOSED OF.			Pundino.			
	1800,	1881.	1863.	1000.	1801.	1062.	1880.	1081.	1002,
Suits for money or moveable property	10,996	7,086 4,307 690	7,850 4,645 478	6,097	7,367 4,439 678	7,832 4,602 400	921 795	617 407 166	886 376 170
Property	5,403	4,070 3,753 300	4,44A 8,352 139	3,077 2,334	8,695 2,603 201	4,683 3,126 145	837 306	904 434 20	719 616 40
Total	10,897	19,015	20,812	18,996	18,986	20,330	3,559	3,007	2,461

Owing to the change in the form of the returns introduced in 1880, a regular comparison of the results of three consecutive years cannot be made until the receipt of the report for the current year. Nor can the results even then be strictly accurate, as it was only in September last that, under the orders of Government, final instructions were issued regarding the adoption of a uniform system of classification of revenue and title suits.

2. As compared with the preceding year, the number of suits for money or moveable property was 7,350 as against 7,086. The principal increase was in suits on bonds. The increase is attributed to the break in the rainfall in July and the two following months, to the anxiety of the people in consequence, and the inferiority of the rice crop which resulted from the break. The number of rent-suits instituted during 1882 was 4,545 as compared with 4,807 in the preceding year. The number of suits for arrears of rent in the Pakour sub-division increased from 46 in 1881 to 162 during 1882. The increase was due, it is said, to the Pakour zemindar, who is the owner of half the sub-division, having "gradually accepted and acted on the settlements with his tenants

from whom he had hitherto kept aloof."

3. The Commissioner observes that the majority of the suits appearing hitherto under the head of rent-suits were really jot suits, that is suits in which the "tenants, for the time virtually proprietors, contended among themselves for possession of disputed plots." An interesting extract is given from the report of Mr. Oldham, the Deputy Commissioner, in which he explains the remedy which has been found for the sale of tenancy and ryoti rights which had sprung up as an effect of the settlement operations. Mr. Oldham points out that, under the action of the courts under Regulation 11I of 1872, the cultivators, when they required a loan, were able to mortgage their holdings at fair rates, when it seemed advantageous to sell them outright. The effects are thus described by Mr. Oldham :- "The first results with the unquestioned rise in credit seemed favourable enough; but a very short interval sufficed to show that, where the borrowers were all Southals or members of the other primitive races, and the lenders were all keen-witted Bengalis and Beharis, and land was the security, that security was fast passing from the hands of its original clearers and cultivators into those of the creditors; while in most instances the original tenant was left as a labourer on the soil of which he had been, for a short period, and by the operation of an unexpected and fatal gift, the proprietor. And the last, and perhaps worst, feature of this change has been seen in those cases where it broke up altogether the old community, and where the village headman and his as essors have been deprived of power because of the intrusion of some foreigner, who has become master of large portions of the village land, and in whose debt they themselves deeply lie." Mr. Oldham then points to the contrast between the state of affairs where, in consequence of these transactions, there had been the "attending disruption of the communities, the loss of the village chief's position and the degraded status of the tribesmen," and the state of affairs in the Government estate-"regarded as the model zemindari of the district—where the integrity of the communes and the position of the. tenantry have been maintained by prohibiting any transfers of land whatsoever, and by the exclusion of the Bengali and Behari land-speculating class." Every attempt has now been made, and with satisfactory results, to supervise closely all cases in which it is sought to favour the irresponsible treatment of his holding by a mere cultivator, and it is now sought to enlist, or at least to allow an opportunity for, the interference of the rent receiver or the landlord. Another important change has been effected in the execution of decrees, it being now held that the "zemindar," to whom notice of the attachment of the land in execution must be given, is not necessarily the proprietor who pays the Government revenue, but the "rent-receiver," and when the latter objects, the. parties are required "to establish or contest the right to sell by separate suit." Sub letting has also, it is said, been rendered ineffective by the courts refusing to allow the recovery of rent at a higher rate than that fixed by the settlement. In order also to define the position of the village headman, who could not be prosecuted criminally for embezzling collections, and who appeared to be able to alienate his nij-jote, it was ruled during the past year that "as the existence of substantial nij-jole is the landlord's sole security for payment by the headman, no encumbrance of it since the settlements, or short of a Southal occupancy right (section 18, Regulation III of 1872) will prevail against the landlord, should the latter have to sell it for arrears, and the Deputy Commissioner will be ready to dismiss as inefficient any headman whose nij-jote had so been sold." These changes will, it is hoped, prove beneficial. Their effects on the suits during the current year should be carefully noted and recorded in the report which will be submitted after its cose. The results, though the natural results of a power suddenly placed in

the hands of an ignorant people, are scarcely conducive to the objects of a settlement which contemplated the establishment of a strong peasant proprietory; and if the measures adopted by the local authorities do no tend to check the evil, it would be for consideration whether the rules in force in the Government estate against the right of transfer should not be generally enforced. It is impossible, at least, to deal with Sonthals as with more advanced communities.

4. The number of cases disposed of during the year was 20,336 as compared with 18,966 during the preceding year, and 15,924 during 1880, the number of cases pending at the close of the year being 2,461 as compared with 2,607 pending at the close of 1881, and 2,559 at the close of 1880. The increase in the amount of work done, and the decrease in the amount of arrears,

is satisfactory.

5. The total number of appeals from decrees of civil courts for disposal during the year was 778 as compared with 634 in the preceding year. Of these 125 were rejected and 16 were dismissed in default, or were not prosecuted. Of the remaining 637, the original decisions were confirmed in 259, modified in 12 and reversed in 80; 242 cases were remanded and 44 were pending at the close of the year. To the Commissioner's court 57 appeals, including 8 revenue appeals, were presented; of these 6 were rejected, in 15 cases the original orders were upheld, in 7 reversed, and the

remaining 29 were pending at the close of the year.

6. The Deputy Commissioner refers to the small receipts in the civil courts in proportion to the number of suits instituted in the Sonthal Pergunnahs, as compared with other parts of Bengal, and thinks that, though some obvious reasons exist, which in part account for the difference, it must be conceded that the courts do not receive their full dues owing to the absence of pleaders. He adds-" The scrutiny of valuation is left to the courts alone, and, however great their vigilance, it cannot be so great as that resulting from the rivalry of professional law agents." He also remarks that a great cause of difference in the receipts is the process system in force in the Sonthal Pergunnahs, and the procedure under which parties can serve their own processes free of cost. The question does not appear to the Lieutenant-Governor to be of much importance where there are the countervailing advantages secured by the special procedure and rules adopted in a backward tract of country like the Sonthal Pergunnahs. At the same time, though the scrutiny by the courts cannot, on account of the pressure of business, be as complete and accurate as that of legal practitioners, ready and anxious to find a flaw in the case of the opponents, still much might, the Lieutenant-Governor considers, be done with care and attention, and the Commissioner should impress on all officers in the Pergunnahs the necessity for a closer examination of the papers. It would do much to make this scrutiny effective if the Deputy Commissioner would himself examine some of the records from time to time to assure himself that the interests of the stamp revenue are not neglected.

7. The Lieutenant-Governor has much pleasure in again recording his appreciation of the manner in which Mr. Oldham performed his duties during the year, and regrets his unavoidable departure from a district of the conditions and circumstances of which he had gained an intimate knowledge. He also notices with satisfaction the favourable remarks on the conduct of the officers subordinate to the Deputy Commissioner. A copy of the remarks regarding the officers mentioned will be forwarded to the Appointment Department of this

office.

Ondered that a copy of this Resolution be forwarded to the

Commissioner of Bhagulpore for information and guidance.

Ordered also that a copy of paragraph 7 of this Resolution, and of paragraphs 25 and 26 of the Report, be forwarded to the Appointment Department of this Office for information.

By order of the Lieutenant-Governor of Bengal,

F. B. PEACOCK,

#### FINANCIAL DEPARTMENT-FINANCE.

Darjeeling, the 3rd July 1883.

#### RESOLUTION.

The Lieutenant-Governor has already, in separate Resolutions, passed orders upon the estimates under the various heads of Provincial Services for 1883-84, and upon the estimates of such funds as are incorporated in the General Imperial Accounts. After these orders were issued, the Government of India, in its Financial Statement for 1883-84, prescribed certain modifications in the form of the estimates which it is incumbent upon the Local Government to follow. It is not necessary to explain at length the various changes made in the classification of the heads of receipts and charges, but opportunity will be taken to recent the revised estimates for 1882-83, and the estimates for 1883-84, in the form prescribed. It will not be convenient to follow the new classification in the accounts of the year 1881-82, nor is it desirable to disturb those accounts, as 1881-82 was the last year of the period for which the financial contract of 1877 had been made, and its accounts have already been closed.

#### ACCOUNTS FOR 1881-82.

2. The Accountant-General's final report on the accounts of 1881-82 has not yet been submitted. The preliminary issue shews the following results compared with the estimates for the year:—

		Estimate, 1881-82.	Regular estimate, 1881-82.	Actuals, 1881-82.
		Rs.	Rs.	Bs.
PROVINCIAL-			*A	
Opening balance	0 4 0	49,01,000	49,91,000	49,91,000
Revenue—				
Proper		8,68,28,000	8,73,03,000	3,76,22,000
vincial	to Pro-	38,10,000	83,84,000	83,69,000
Contributions from Local	to Pro-			
vincial	1 * 1	2,000	2,000	1,39,000
Inter-provincial adjustments	***	•••••		
Total	• * •	4,06,46,000	4,56,89,000	4,61,30,000
GRAND TOTAL		4,55,41,000	5,06,80,000	5,11,21,000
Expenditure—				
Civil	4 6 8	2,67,41,000	2,61,19,000	2,62,93,000
Public Works—	90	•		
Interest	9.1.0	87,69,000	*88,71,000	88,61,000
Railways		26,40,000	82,16,000	30,34,000
Irrigation and Navigation	0.0.0	40,00,000	87,61,000	86,60,000
Other Public Works	* * *	67,50,000	66,31,000	66,87,000
Total	0.00	1,71,59,000	1,69,79,000	1,67,42,000
Contribution to Local Funds		1,96,000	8,33,000	3,66,000
Closing balance		14,46,000	72,49,000	77,20,000
GRAND TOTAL	***	4,55,41,000	5,06,80,000	5,11,21,000

3. In the Resolution of the 18th April 1882, it was shewn that the year 1881-82 had actually opened with a credit balance of Rs. 49,91,000; that the revenues under all heads might, during the year, amount to Rs. 3,73,03,000; that the Imperial allotments, including the special grant

of Rs. 28,50,000 made in pursuance of the new contract, and the restoration of Rs. 20,00,000, which had been contributed to the Imperial Treasury in the previous two years, would be Rs. 83,84,000; that the total expenditure during the year would probably not exceed Rs. 4,34,31,000, leaving a credit balance at the close of the year of Rs. 72,49,000. The actual result has been more favourable than this estimate by Rs. 4,71,000. The expenditure of the Public Works Department fell short of the estimate by Rs. 2,37,000; a sum of Rs. 1,39,000, representing the balance of the Estates Improvement Fund, has been added to the Provincial Services balance; and the receipts of the Public Works Department increased by Rs. 3,00,000. Against this there was a decrease of Rs. 15,000 under Imperial allotment; the sum of Rs. 2,000, estimated for contribution from local funds for the services of executive officers of the Public Works Department for supervising district works, has not been realized; the grants to Local Funds have increased by Rs. 33,000; and the operations of the Civil Department shewed a net result worse by Rs. 1,64,000, as exhibited in the following table:—

						Botter.	Worse,
						Rs.	Rs
Rxcise						> 0 0 1 0 0	1,29,000
Customs		0 0 0	* * 1	* * *	B 9 4	15,000	
Sult			0.00		* * *	111111	9,000
Opium					9.1.4		13,000
Stamps			* * *	040		34,000	* * *
Registration			0.00		0.04		2,000
Minor Depar			***		141		20,000
Law and Jus	tice			4 * *			1,33,000
Police	***	0.00	0.0.0	* * *	***	42,000	
Marine		000	0.0 0	0 6 0		24,000	* * * * * *
Education	004					*** **	56,000
Medical		•••		***		17.000	11/100
Stationery at	od Print	ing				57,000	
Interest on I	romisso	ry Notes		***		1,000	* * * * * *
Miscellancot	19	***		***	111	75,000	*****
Public Work	s by Civ	ril Officers		0 0 0	***	12,000	****
Refunds				***	***	000000	89,000
Land Revent	110	0.0 1				*****	6,000
Assessed Tax	893	***	4 7 1		***	4,000	- •
Administrati			***	***	***	14,000	407041
			***	***	***		*****
				Total		*****	1,64,000

4. The accounts furnished by the Accountant-General shew that the Provincial balance on the 31st March 1882 was Rs. 75,43,000, which was less than that shewn above by Rs. 1,77,000. This amount represents the debit of Rs. 1,77,000 on account of Census operations. The Government of India, in the Home Department, has, however, in letter No. 34, dated 4th May 1883, accepted this charge as Imperial. The Provincial balance was therefore Rs. 77,20,000.

#### REVISED ESTIMATE, 1882-83.

5. Hitherto the estimates of the year about to expire, which are presented at the time of the preparation of the budget for next ensuing year, have been termed the "Regular" estimates. The term is a technical one, and its meaning may not be clear to all. The Government of India sees no reason for the continuance of the word, when another word, which any one can understand, is available, and has directed that the word "Revised" shall be used instead of "Regular."

6. The financial year, which has just expired, was the first year of an important advance in the policy of decentralization. A new contract has been entered into, under which the interest of the Provincial Government has been extended to Land Revenue, Forests, and Assessed Taxes—heads of revenue hitherto reserved as Imperial. A consideration of the revised estimates for 1882-83 will shew approximately what has been the position of the province in the first year of the contract.

A revised estimate, based on the actuals of eight months, and in some instances of ten months, was submitted to the Government of India with letter No. 539, dated the 17th February 1883. Later information has induced the Lieutenant-Governor to modify these estimates to a certain extent.

7. The following statement shows the estimates for the year 1892-88 as originally framed, the revised estimates as submitted to the Government of India, and the estimates as now modified:—

Enchipps.	Original cutimate, 1882-83.	Revised estimate, 1852-83.	Revised cetimate, 1982-83, as now modified.	Expenditure.	Original estimates 1862-63.	Revised estimate, 1852-83.	Revised estimate, 1882-87, as now medified
	Ra.	Ra.	Bo.		Ru.	Bo.	Ro.
Opening balance	72,40,000	77,20,000	77.20,000	8 Refunds and Drawbacks	6,22,000	1,27,000	1,27,000
ILand Revenue	1.24.98,000	1,25,99,000	1,29,54,000	7 Salt	20,000	20,73,000	31,00,000
111.—Salt	1,39,000	1.64,000	1,64,000	SStamps	8,25,000	2,12,000	2,12,000
IV Stramps	60,0n,0bi)	62,00,000	61,07,000	9 Exaina	1,86,000	1,88,000	1,34,000
V Harms	50,05,000	48.78,000	48,94,000	10.—Provincial Rates	5.69.000	6.80.000	5.57.000
V1 Provincial rates	35,78,000	78,000	88,03,000 78,000	12. Assumed Taxos	Billings	Sumble	49,000
VII.—Customs WIII.—Assessed Taxes	8,00,000	7,89,000	7.60,600	13 Forest	2,20,000	2,30,000	2,00,000
-IX - Format	8,50,000	8,67,000	3,60,000	14.—Registration	8,16,100	3,17,000	8,16,000
X Registration XV Law and Justice	5,08,000	5,17,000	5,20,000	18.—General Administration	11,68,000	14,7H,HHH	18,07,00
XV Law and Justice	17,10,000	16,49,000	16.20,000	19.—Law and Justice !	\$65,6314,1900	98,20,000	92,65,10
XVI Police	8,46,000	6,20,000	4,86,000	20 Police	467, 161, 1931	45, 46, 1100	43,44 00
XVIIMarine	8,23,000	9,01,000	9,51,000	21 Marine	20,60,000	8,46,000	7150
XVIII Education	1,42,000	B.G0,000	5,22,000	22.—Rducation	14,28,000	13,73,000	1:50.00
XXScientific and other	1,95,000	1,42,000	1,84,0 ни	26.—Scientific and other Minor	110, 20,1100	201101000	20,00,00
Menor Dopartments	1,91,000	1,76,000	1,65,000	Departments	8,06,000	3,28,000	3,40,00
XXIInterest	21,000	41,000	41,000	27.—Superannuation	10,28,000	11,55,000	31.80,00
XXIISuor amountion	71,000	74,000	74,000	30, -stationery and printing	10,04.000	0.85,000	9.05,000
XXIIIStationery and Printing	3,12,000	1,35,000	1,47,000	81 Miscollaneous	3,92,000	0,4n,000	6,54,00
XXIV Miscellaneous	6,48,000	0,88,000	6,88,000	36. State Railways (working	0	20 48 000	
XXV State Ruflway (groun	36,20,000	88 80 000	00 MM 000	39,-1rrigation and Navigation	85,70,000	19, 18,000	19,66,00
XXVIII.—Irrigation and Naviga-	30,20,000	85,29,000	85,28,000		36,72,000	10,72,000	11.22.00
tion direct receipts)	16,00,000	12,00,000	13,00,000	41.—Interest on dobt—	003101000	20112000	14-88,00
XXXIState Railways	101111	1,49,000	1,40,000	Railways	35,63,000	( 14,20,000	14.14.00
XXXIII Irrigation and Naviga-		0,00,000	2,10,000	1 rrigation	30,00,000	21,85,000	
tion		7,02,000	7,02,000	42.—Stute Railways (capital)			
XXXvCivil buildings, roads				Booount)	*****	17.5 \$,000	
and services	7,02,000	7.16,000	7,16,000	45.—State Railways (working, &c.)		1,25,000	
				44 Subsidied unitways	*4****	24,50,000	24.00,000
*	3,99,96,000	4,68,68,000	4,05,07,000	48Civil buildings, roads, &c.	57,99,000	00,74,000	60,05,00
	0,00,000	***********	#40P1011000	and the same and a same and the			
					4,51,06,000	4,51,46,000	
Contribution from Local to Pro-	1 4 4 4 4 4 4			Contributions	14,86,000	2,75,000	2,68,00
.vinomi	1,60,000	*****	144117	1	4 48 110 OWN	A 0.4 als (uni	4 4 4 4 4 4
			t	Closing balance	6,85,92,000	4,54,71,000	
				Closing uninnoc	0,141,000	\$6,67,000	25,586,67
Total	4.01,56,000	4,08,68,00u	4,05,67,000	GRAND TOTAL	4,74,05,000	4,80,8%,000	4,82,87,00
	.,,.,,,,,,	.,,,	6,00,000				and the same of th
M				Provincial surplus (+)			1
GRAND TOTAL	4,74,03,000	4,80,88,000	4,82,87,000	Defleit (-)	-64,36,000	~- 50,53,000	-51,24,U

#### RECEIPTS.

8. Land Revenue.—The amount of percentage of Land Revenue assigned to Bengal under the new contract was originally fixed at 32.2284. In consequence of the re-transfer of the S. S. Undaunted from the Imperial to the Provincial Marine, and of the cemetery charges having again been made provincial, the Government of India at first added 1742 and 0214, respectively, to the percentage already assigned. It has since, however, been ruled that the original percentage of Land Revenue shall not be changed during the currency of the Provincial contract, and that effect shall be given to all transactions which would otherwise necessitate an alteration of the proportion by transfer of lump sums in reduction of, or in addition to, the amounts determined by the fixed proportion under the head of Land Revenue, from or to Imperial to or from Provincial. The amounts, therefore, which under this ruling have been added to the share of Bengal on account of the Undaunted and "Cemetery charges" are Rs. 65,000 and Rs. 8,000, respectively. The latest return from the Comptroller-General shews that the total Land Revenue of the Province may have amounted to Rs. 3,83,75,000, and a percentage of 32 2284 on this sum amounts to Rs. 1,23,67,000. The 10 per cent. on collections from Government estates, which is to be appropriated to the management and improvement of these estates, will probably have amounted to its. 3,78,000. The receipts from the duty on Shajehanpore rum realized in the North-Western Provinces, and other inter-provincial transactions adjusted through the clearing account of the Comptroller-General, may have realized in favour of this Government a sum of Rs. 1,10,000. The Provincial receipts under Land Revenue will then be-

mare calculated at the per		2284)		Vinger 7'		Rs. 1,23,67,000	
On account of S. S. Unda		***	1.00	0.00	110	65,000	
Ditto of cometry cha		201 201	4+4	5 9 4	0.00	8,000	
Ten per cent. collections f		ment osu	867	***	0.0 +	8.78.000	
Inter-provincial adjustmen	108	2 9 4	***	111	619	1,10,000	
· in	A chiamin at a		15 经加加	Total	4.64	1,29,28,000	

From this, however, must be deducted the amount of net savings effected in the Customs Department owing to the abolition of the bulk of the import duties. The savings in the cost of establishment during the year 1882-83 may have amounted to Rs. 1,50,000, but the additional charge for pensions, gratuities, and bonuses thrown on the Provincial Government on account of the retirement of the Customs officers may probably have amounted to about one lakh. A part of this would have, in any case, ultimately fallen on the Provincial revenues. A large portion, however, is an extraordinary charge which does not form an ordinary incident of the liability for superannuations. A representation on this subject will be made to the Government of India as soon as full information is available. Meanwhile the reduction on account of Customs establishment will be taken at Rs 70,000, and the revised estimate of the Provincial share of Land Revenue will be placed at Rs. 1,28,58,000.

9. Salt.—The Provincial receipts under this head consist only of "Rents of warehouses," "Fines and Forfeitures," and "Macellaneous fees, &c." These receipts were originally estimated at Rs. 1,39,000. Larger receipts were realized from the Sulkea Golahs than were at first anticipated, and the

revised estimate stands at Rs. 1,64,000.

10. Stamps.—The original estimate of total stamp receipts for 1892-88 was Rs. 1,20,00,000, the same as the revised estimate for the preceding year. The actuals of 1851-82 were Rs. 1,20,24,000, and the revised estimate was, on later information, placed at Rs. 1,24,00,000. The latest returns tend to shew that the actuals may not have amounted to more than Rs. 1,22,13,000. Half of this belongs to Bengal, and the estimate as now modified stands at Rs. 61,07,000.

11. Excise — The Lieutenant-Governor originally fixed the estimate for 1882-83, exclusive of duty on Shahjehanpore rum, at Rs. 1,00,00,000. From the indications afforded by the district returns during the year, it was anticipated that the revenue would not amount to more than Rs. 97,50,000. The actuals, however, were probably not less than Rs. 97,89,000, and half of this amount, or Rs. 48,94,000, will stand as the revised estimate for 1882-83.

12. Provincial Rates.—The Provincial portion of the estimate under this

head includes-

(1) The proceeds of the Public Works Cess.

(2) Rates for the management of Wards' and Attached Estates.

(8) Four annas rate per cent. on Wards' estates for treasury establishments.

The increase of Rs. 25,000 in the revised estimate, compared with the original estimate for 1852-83, is due to larger receipts from Public Works Cess in consequence of the revaluations in certain districts having been completed. The revised estimate stands at Rs. 36,03,000.

13. Customs.—The only Provincial items under this head are "Warehouse and wharf rents," "Fees for registration of cargo-boats in Chittagong," and certain other "Miscellaneous items." The receipts in 1881-82 were Rs. 86,000, and the original estimate for 1882-83 was placed at Rs. 85,000. The receipts may not have reached this estimate. The wharf rents have decreased owing to the abolition of the import duties. The revised estimate stands at Rs. 73,000.

14. Assessed Taxes.—The Accountant-General, in submitting the budget for 1883-84, estimated that the total receipts by the end of 1882-83 might amount to Rs 16,00,000. The estimate was considered too sanguine, and it was reduced to Rs. 15,75,000. The latest returns tend to show that the totals will probably not have exceeded Rs. 15,20,000. The Provincial share will

stand at Rs. 7,60,000.

15. Forest.—The receipts for 1882-83 were originally estimated at Rs. 7,00,000. An increase in revenue was anticipated from larger sales of timber and other produce to consumers in the Sunderbuns, and in consequence of the commencement of forest operations in the Angul and Khoordah forests in Orissa. The revised estimate was placed at Rs. 7,34,000. The Government of India has reduced the estimate to Rs. 7,20,000, which has been accepted by the Lieutenant-Governor.

16. Registration.—The original estimate of revenue under this head, including revenue record-room receipts, was Rs. 10,11,000. There has been a tendency of the receipts to expand, and the estimate was raised to Rs. 10,34,000

in the Resolution of the 17th January 1883. The receipts will probably have amounted to Rs. 10,40,000 by the end of the year. The Provincial share will

stand at Rs. 5,20,000.

17. Law and Justice.—The original estimate was Rs. 17,10,000, of which Rs. 9,06,000 appeared under the head of Law and Justice (Proper), and 8,04,000 under Jails. There has been a considerable falling off in the receipts from "General fees, fines, and forfeitures;" and there has also been a decrease under "Court-fees realized in eash," owing to the more extended use of courtfees stamps. The total receipts under Law and Justice (Proper) may not have amounted to more than Rs. 8,25,000. The revised estimate of total receipts under Law and Justice is Rs. 16,25,000.

Police.—The estimate, as now modified, amounts to Rs. 4,86,000, against Rs. 5,46,000 originally estimated. The decrease is specially under

"Fees, fines, and forfeitures."

19. Marina. - The estimate under this head was raised from Rs. 8.23.000 to Rs. 9,01,000. There has been a considerable increase in pilotage receipts. and the estimate will be further raised to Rs. 9,51,000.

20. Education.—The latest figures shew that the estimate under this

head should be fixed at Rs. 5,22,000.

21. Medical.—The estimate, as now modified, shews a decreuse of Rs. 8,000 compared with the original estimate. There has been a falling off in "Hospital receipts;" and the "Proceeds of cinchona febrifuge sold by Civil Surgeons," which were formerly included under this head, have now been transferred to

the cinchona account under the next following head.

22. Scientific and other Minor Departments.—The actual receipts under this head in 1881-82 were Rs. 1,97,000, and the original estimate for 1882-83 was placed at Rs. 1,91,000, of which Rs. 1,75,000 was estimated from cinchons febrifuge. The demand for this drug from the medical departments has diminished. The Government of Madras receives preparations made in England from bark sent from its own plantations, and the Bombay and Calcutta depôts are overstocked with preparations sent out from England. It is anticipated that the receipts from this source will not have exceeded Rs. 1,50,000. The total receipts will then stand at Rs. 1,65,000.

Interest. -The Provincial receipts consist of the proceeds of the invested capital of the Education Department, and the interest on arrears of Public Works cess realized under the provisions of section 45 of the Cess Act IX of 1880. The interest on the Government securities held by the Education Department averages about Rs. 16,000 a year, and that on account of Public Works cess was originally estimated at Rs. 5,000, but may have come up to

Rs. 25,000. The total receipts will stand at Rs. 41,000.

Superannuation .- This is one of the budget heads made Provincial in the new Financial Contract. The increase of Rs. 3,000 in the revised estimate is due to the subscriptions of the members of the Civil Service who have arrived in India since 1881-82, and who are not allowed to subscribe to the Civil Fund.

Stationery and Printing .- The revised estimate will be increased from Rs. 1,35,000 to Rs. 1,47,000, with reference to the latest figures received

from the Accountant-General.

26. Miscellaneous.—In the new Financial Contract all receipts recorded under this head, except "Gain by exchange on Imperial transactions," "Premia on bills," "Unclaimed bills-of-exchange," and extraordinary unclassified items exceeding Rs. 10,000, were made Provincial. The total receipts were originally estimated at Rs. 6,43,000. The receipts will probably have amounted to Rs. 6,89,000, as shewn in the revised estimate. This figure will accordingly stand.

State Railways (XXV) .- 'The gross earnings of State Railways, which have been classed as Productive Public Works, are shewn under this head. The Government of India has reduced the revised estimate from Rs. 35,29,000 to Rs. 35,28,000. The estimate of the Government of India will stand.

28. Irrigation and Navigation (direct receipts-XXVII).—The revised estimate of Rs. 12,00,000 under this head has been accepted by the Government of India. Later information shews that the estimate may be raised to

Ra. 13,00,000.

29. State Railways (XXXI).—The receipts from railways not classed as Productive Public Works are shewn under this head. At present the Sonar-pore-Diamond Harbour branch of the Calcutta and South-Eastern Railway and the Kawnia-Dhurla Railway are included under this category. The Government of India has accepted the revised estimate of Rs. 1,49,000 under this head.

30. Irrigation and Nanigation (XXXIII).—The receipts from rivers and canals not classed as Productive Public Works are included under this head The revised estimate of Rs. 7,02,000 under this head has been accepted by the

Government of India.

31. Civil Buildings, Roads, and Services.—The estimate of Rs. 7,02,000 under this head has been raised to Rs. 7,16,000. The revised estimate has been

accepted by the Government of India.

32. Contribution.—The amount shewn under this head in the original estimate represented the accumulated balance of the Estates Improvement Fund, which was to be amalgamated with the Provincial Services. The actual balance amounted to Rs. 1,39,000, and has been incorporated in the Provincial Account of 1881-82.

#### EXPENDITURE.

83. Refund and Drawbacks.—The original estimate under this head was Rs. 6,22,000; but in accordance with the new classification, only the refunds under the revenue heads are to be entered here, the refunds of receipts by the Civil Department being incorporated with the service heads of expenditure.

The revised estimate under this head stands at Rs 1,27,000.

34. Land Revenue.—Under the new scheme the Imperial Government has only retained under this head the same percentage on the cost of surveys and settlements as has been retained of land revenue, the rest being made Provincial. In the Resolution of the 18th April 1882, the grant under this head for 1852-83 was fixed at Rs. 30,84,000. The charges for the management of Government estates were estimated at Rs. 2,50,000. These charges may have exceeded the estimate by Rs. 50,000. The Lieutenant-Governor would raise the estimate to Rs. 31,00,000.

35. Salt.—The original estimate under this head has been reduced by

Rs. 2,000 in the revised estimate.

36. Stamps.—The revised estimate shews a decrease of Rs. 13,000 compared with the original estimate. The greater part of the decrease occurs under "Stamp paper supplied from central stores."

3?. Excise.—The estimate, as now modified, is less than the original

estimate by Rs. 1,000 only.

38. Provincial Rates.—This head in the Provincial estimate is blank, as the charges for the collection of Public Works cess, for which a sum of Rs. 46,800 is annually paid to the District Road Committees, are adjusted under the head "Contribution to Local Funds."

89. Customs.—The original estimate of this Government was Rs. 7,05,000. The Government of India, in consideration of the anticipated reductions in the Customs establishment owing to the abolition of the import duties, reduced the estimate to Rs. 5,69,000, and this figure was adopted in the Resolution of the 18th April 1882. The Accountant-General's last return tends to show that the entire expenditure will have amounted to Rs. 5,57,000, and this amount will stand as the revised estimate for 1882-83.

40. Assessed Tuxes.—The entire cost of collection will probably not have exceeded Rs. 96,000. Half this amount, or Rs. 48,000, will stand as

the revised estimate for 1882-83.

41. Forest.—The revised estimate under this head, as passed by the Government of India, is Rs. 4,00,000. The Provincial share amounts to Rs. 2,00,000.

42. Registration.—The original estimate of Provincial expenditure has

been reduced by Rs. 1,000.

43. General Administration.—The revised estimate, as now modified, shews an increase of Rs. 39,000 over the original estimate of Rs. 14,68,000. There is an increase of Rs. 19,000 under Tour expenses, Rs. 11,000 in Board's office, and Rs. 8,000 under Civil Secretariat. There is also an increase under "Staff and household of the Lieutenant-Governor," a part of which is due to

the higher rate of pay of the present Private Secretary, which was sanctioned in letter from the Government of India, Finance and Commerce Department,

No. 2872, dated the 27th March 1882.

44. Law and Justice. - The grant under this head, excluding " Refunds," was estimated by the Government of India at Rs. 93,69,000. The expenditure on jail manufactures, for which Rs. 9,00,000 was provided in the budget, will not have exceeded Rs. 6,50,000. The refunds amount to about Rs. 1,40,000. The revised estimate may be placed at Rs. 92,65,000.

45. Police -The original estimate under this head was Rs. 45,81,000. The revised estimate inclusive of "Refunds," amounting to Rs. 15,000, stands

at Rs. 45,44,000.

46. Marine.—The original estimate amounted to Rs. 8,28,000, and the revised estimate, including "Refunds," to Rs. 8,66,000. There has been a large expenditure on account of building and repair of ships and under "Pilotage establishments." The estimate will be raised to Rs. 9.09.000.

47. Education .- The increase in the estimate, as now passed, compared with the original budget provision, is due partly to the debit under this head of the boarding charges of the students of the Civil Engineering College at Howrah, which were formerly included in the budget of the Public Works Department, and partly to larger expenditure under "Direction" and "Inspection."

Medical.—The "Medical Establishment (Proper)" has been made Provincial from the commencement of the year 1882-83. The total expenditure was estimated at Rs. 14,26,000. When the revised estimate was submitted to the Government of India, it was anticipated that the entire expenditure would not be more than Rs. 13,73,000. The expenditure under "Hospital and dispensaries" and "Grants for medical purposes" has, however, been smaller than was anticipated, The estimate, as now modified, stands at Rs. 13,55,000.

49. Scientific and other Minor Departments.—The actual expenditure in 1881-82 was Rs. 3,26,000, and the revised estimate for 1882-83 was placed at Rs. 3,29,000, against Rs. 3,06,000, the grant originally provided under this head. No provision was made in the original estimate for the completion of the census operations, the expenditure on which is reported to have amounted There has been larger expenditure under "Botanical Gardens" and "Exhibitions and Fairs," against savings in the cinchona allotment. The estimate has been rais d to Rs. 3,40,000.

50. Superannuation .- As stated above, this is one of the budget heads made Provincial in the new Financial Contract. The charges were originally estimated at Rs. 10,28,000, and will probably bave amounted to Rs. 11,50,000. The increase is for the most part due to the premature retirement of Customs

officers under the reduction scheme.

51. Stationery and Printing .- The original grant under this head was Rs. 10.04.000. The latest return tends to shew that the expenditure may not have exceeded its. 9,65,000. This will stand as the last estimate for 1882-83.

- 52. Miscellaneous .- The original estimate under this head was Rs. 2,92,000, and miscellancous refunds were taken at Rs. 3,38,000. The total expenditure will probably have amounted to Rs. 6,54,000, and this will be taken as the last estimate for 1882-83.
- 53. State Railways (33).—The working expenses of those railways only which are classed as Productive Public Works are included under this head. The Government of India has increased the revised estimate under this head, amounting to Rs. 19,33,000, by Rs. 33,000. The increase is for the Northern Bengal and Patna-Gya lines. The Lieutenant-Governor accepts the estimate of the Government of India.

54. Irrigation and Navigation (39).—The revised estimate of the irrigation canals, amounting to Rs. 10,72,000, has been passed by the Government of India. Later information, however, shews that this amount will be exceeded. and the estimate will be increased by its. 50,000.

55. Interest .- The original estimate of interest charges as advised by the Accountant-General, l'ublic Works Department, was Rs. 39,55,000. The reduction of the rate of interest from 41 per cent. to 4 per cent. reduced this estimate to Rs. 35,16,000. The Government of India, however, increased the estimate of these charges to Rs. 35,62,000. This estimate was allowed to stand. The revised estimate provided for Rs. 35,55,000, which the Government of India

has reduced to Rs. 35,45,000. This includes interest on the capital of Rs. 66,000 laid out on the Ranaghat-Bhugwangola line in 1881-82, and on Rs. 1,00,000, which was to have been expended in 1882-83. As, however, the Provincial Government is not required to pay interest on these amounts, the estimate of the Government of India has been reduced by Rs. 5,000. The estimate will stand at Rs. 35,40,000.

56. State Railways (42).—This head is intended to comprise all expenditure on capital account, on tramways, railway surveys, and railways not classed as Productive Public Works. The revised estimate amounted to Rs. 17,54,000, from which, however, the provision of Rs. 47,000 for administrative charges had been omitted. The Government of India has accordingly raised the estimate to Rs. 18,01,000, which will stand.

57. State Railways (43) — The revised estimate of working expenses of State Railways, which were not classed as Productive Public Works, amounted

to Rs. 1,25,000. This has been accepted by the Government of India.

Rs. 24,00,000, under this head, has been accepted by the Government of India, and will stand.

59. Civil Buildings, Roads, &c.—The revised estimate was made up as follows:—

							Rs.
Public Work	s in charge			rtment	0.1		60,25,000
Ditto	ditto	Civil De	partment		4 4 4		40,000
Refunds	906					+ + 4	9,000
					Total		60,74,000

The expenditure by the Civil Department has probably not exceeded Rs. 36,000, and the grant of Rs. 62,212, made for acquiring lands for the site of the new civil station of Khoolna, has not yet been appropriated. The payments are likely to be made during the current year, and will be met from the grant fixed for that year. The estimate for the past year will stand at Rs. 60,08,000.

60. A sum of Rs. 13,50,000 was provided in the budget as a reserve for grants for local purposes during the year, and a sum of Rs 1,36,000 for contribution to the Imperial Treasury on account of anticipated savings in the Customs Department. The savings in the Customs Department are now adjusted through "Land Revenue." The grant to Local Funds, including a contribution of Rs. 4,000 to the Burial Board, will not probably have amounted to more than Rs. 2,88,000. This amount will accordingly be taken as the revised estimate.

61. In the Resolution of the 18th April 1882, it was estimated that the year 1882-83 had opened with a credit balance of Rs. 72,49,000; that the total amount available for expenditure would be Rs. 4,74,05,000; that expenditure on all accounts would amount to Rs. 4,65,92,000; and that the year would close with a credit balance of Rs. 8,13,000. It has been shown above that the year 1882-83 actually opened with a credit balance of Rs. 77,20,000; that the receipts will probably have exceeded the estimate by Rs. 4,31,000; and that the expenditure will have fallen short of the total grant by Rs. 8,39,000. The closing balance of the year is therefore Rs. 25,54,000, which is better than the original estimate by Rs. 17,41,000.

#### BUDGET ESTIMATE, 1883-84.

#### 62. The budget estimate for 1883-84 is as follows:

SAC SAC SAC SAC SAC SAC SAC SAC SAC SAC							Rs.
Revenue	+90	•••	9.4	,,,,		***	4.22,41,000
Expenditure	• • • Finan	Barrell St.	9 4 4 P-SI	* 7 *	* * *	400	4,39,06,000
				671	Deficit	***	-16,65,000

The revenue for 1883-84, including the allotment of Rs. 3,00,000 from the Famine Relief Fund towards the expenditure on the Orissa Coast Canal, is Rs. 16,74,000 more than that of 1882-83, according to the revised estimate as finally adopted; while the expenditure for 1883-84 is estimated at Rs. 17,85,000 less than that for 1882-83, according to the same estimates.

The following are the estimates of Provincial Revenue and expenditure for the current year:

REVENUE.	Original estimate of Government of Bougal.	Estimate of Government of Indus,	Estimate as new modified.	Expendituar.	Original estimate of Government of Benual.	Retimate of thevernment of India.	Estimate as now revised.
	Re.	Hs.	Ru.		Ra.	Ry.	Ro.
Opening balance	26,66,800	24,84,000	25,96,000	3 -Refunds	1,18,000	4 1,09 000	1,13,000
II.and Revenue	1.27.87.000	1,25,88,000	1,23,91,000	5Land Revenue	20,03,000	21,000	31,63,980 21,080
III.—Salt	1,59,0 ю	1,50,000	1,50,000	S.—Straps	2.15,000	2,15,000	2.15,000
IV.—Stampe	602, 500, O M	62 00,000	62,50,0HH	9Excise	1,39,000	1, 651,0000	1,39,000
VExerno	455,565,000	49,00,000	\$1,60,000	10,-Provincial Rates		*****	
VI Provincial Rates	S6,52,F00	30,52,000	86,52,960	11Customs	4,90,000	4,98,000	4,911,000
VII Customs	+-5,5000	65 000	65,000	12 ABREAGED TRXCH	50,000	\$0,000	50,000
VIII Assessed Taxes	7,75,000	7,75,0000	7,75,000	13 Forest	2,00,000	2,50,000	2,50,000
IX Forest	4 40,000 5,21,000	4,(0),000	4,00(00)	14 Registration	E, 1/2 (9690)	3, 32, 4800	8,12,000 14,59,000
X Registration	18, 140,000	38,10 0001	18.10.000	18.—General Administration	14,80,000	3 4,560 e3610 \$101, 8\$2,0000	94,45,000
XV.—Law and Justice XVI.—Police	0.25,000	6,25,000	0,25,000	no the line	67,78,000	47,78,000	47,75,488
	F.95,000	8,95,000	8,05,000	113 37	6 70 (1110)	8,56,000	8,62,000
XVII.—Marino	6,18,000	6,15,18(90)	6.18,000	22.—Editention	32,0.,000	81.39, 100	82,05,15
X1XMedical	1,37,000	2,37,000	1,37,000	24 Medical	14,00,000	14,00,000	1402,000
XXScientific and other				26Scientific and other Minor			
Minur Departments .	1,71,000	1,71,000	1,71,000	Departments	8,64,000	9,00,000	3,66,000
XXIInterest	41,000	41,000	41,000	20.—Superantuation	3 1,498,0490	11,47,600	21 67,000
XXIISuperunnuation	70,000	70,000	711,000	80Stationery and printing	14,50,200	0,610,600	9,51,600
XXIIIStatemery and Printing	6,82,000	1.27 (HH) 6.82(HH)	1,27,000	31Miscollaneous	6,47,000	6,97,000	6, 17,000
a NIV Misseellaments	0,02,000	IN-DEFENSE	6,82,000	da in da enda coma 1	19.72,500	10,85,000	19,85,000
XXV.—State Railways (gross	41.77,000	39,75,000	40,83,000	30Irrigation and Navigation	10,72,000	THEORYGON	a pyrodytyter
XXVIIIrrigation and Naviga-	0 011 111100	001101010	Aller Courts	working, &c.)	10,84,000	10,94,000	10,84,000
tion (direct receipts)	12,00,000	12,00,000	15,00,000	41Interest on debt-	.,		
XXXIState Rallways	2,45,000	2,45,000	2,45,0HH	Railwaya	15,70,900	16,03,000	35,03,000
XXXIIIIrrigation and Mavi-				Errantion	22,02,300	21,86,000	21,86,000
untien	7,81,500	7;81,000	7,81,000	12 State Ruilways (capital ac-			
XXXV.—Civil buildings, roads,	de 4 4 4000	# 84 0 PM	BH 41.5 11.50	count)	क्षित्र नाम	0,74,000	9,74,000
and services	7,51,000	7,84,000	7.84,000	43.—State Railways	1,94,000	1,00,000	70,000
		í		44.—Sub-idized Railways	16,00,000	70.000	18,00,661
		1		AND AND AND ADDRESS OF THE PARTY OF THE PART	41,30,200	41,62,000	14,62,000
1				48 Civil Buildings	90,010,010	4,,112,11111	P. P. Cran parties
					4,2004*,900	4,81,93,000	4,31,03,000
				Contributions	7,50,000		8,000,000
(-		1.1.00.000			To Substance		
1	4,19,22,9 10	4,14,09,000	4,29,41,000	Oh - level believe	4,36,97,1900	13.000 100.0	4,3(0,007,0000)
Rebef Pund			8,00,000	Closing balance	8,01,500	6,74,000	9,65,000
Relief Fund	4 44 45 7 5 5 5			GRAND TOTAL	4,45,50,100	*****	4,48,37,000
	4,18,92,900	4,14,00,000	4,22,41,000	Provincial surplus (+) or Defi-			-
GRAND TOTAL	4,45,89,400		4,49,37,000	troonedri marbina (+) or fiell-	-17.75,600	-16,94,900	-16,65,000

### REVENUE.

63. Land Revenue.—The total land revenue for the year 1883-84 has been estimated at Rs. 3,79,68,000 or Rs. 44,000 more than the actuals of 1881-82, and Rs. 3,87,000 less than the estimate for 1882-33 as finally adopted. The Provincial share of land revenue was originally estimated at Rs. 1,27,38,000. No provision was made in the estimate for inter-provincial adjustments other than those for Shahjehanpore rum, and no deduction was made for savings in the Customs establishment. The estimate, as now adopted, has been obtained as follows:—

*	
Rs.	Ra.
The Provincial share, calculated at the percentage (32°2284)  10 per cent. on collections from Government estates  Inter-provincial adjustments  Additional charge for pensions of officers of the Customs	1,23,16,000 3,88,000 1,08,000
Department	25,000
Deduct-	1,28,37,000
Contribution to Imperial for extension of meteorological observations 17,000 Savings in Customs establishment 2,29,000	
Total	1,25,91,000

65. Salt.—The revenue in the last year was swelled by abnormal receipts in the Sulkea Golahs. The estimate for the current year provides for a total receipt of Rs. 1,59,000, against Rs. 1,47,000, the actuals of 1881-82, and a decrease of Rs. 5,000 compared with the last estimate for 1882-83.

revenue under this head from Rs. 1,25,00,000 to Rs. 1,24,00,000 with reference to the receipts of the past year, which have probably amounted to Rs. 1,22,13,000. The receipts during the first two months of the current year

shew an increase of Rs. 1,57,000 over the receipts of the corresponding period of the past year. Looking to the continued development of this branch of the revenue, and to the extended use of court-fee stamps, the Lieutenant-Governor would adhere to the original estimate of Rs. 1,25,00,000. The Provincial share will accordingly be taken at Rs. 62,50,000.

67. Excise - The growth of the excise revenue in Bengal during the last

four years has been as follows:-

Rs. Rs. 1879-80 ... 72,07,000 1881-82 ... 93,74,000 1880-81 ... 85,53,000 Revised estimate, 1892-83 ... 97,89,000

The increase in 1880-81 was Rs. 13,46,000, in 1881-82 Rs. 8,21,000, and in 1882-83 Rs. 4,15,000. The increase during the first two months of the current year, compared with the receipts of the corresponding period of the past year, as shewn in the district returns, amounts to Rs. 1,29,000, and though there has been a considerable reduction in the number of outstills, there are indications of a sustained increase in consequence of favourable settlements. The estimate for the current year will be taken at a round sum of Rs. 1,03,00,000,

and the Provincial share at Rs. 51,50,000.

68. Provincial rates.—The revenue under this head shows a moderate but steady tendency to increase. The new Cess Act IX (B.C.) of 1880 came into operation in October of that year. The receipts from Public Works cess in 1880-81 aggregated Rs. 34,63,000, and in 1891-82 Rs. 34,84,000. In view of the revaluations in progress, a sum of Rs. 35,25,000 was estimated for 1892-83. The receipts will probably have aggregated Rs. 35,50,000. As it is expected that the revaluations now in progress will be brought to a close before the end of 1883-84, a sum of Rs. 36,00,000 has been estimated for the current year. The other receipts included under this head have been taken at Rs. 52,000. The total estimate stands at Rs. 36,52,000.

69. Customs.—The Provincial receipts are estimated at Rs 65,500, against the original estimate of Rs. 85,000 for the past year. The decrease

is due to smaller receipts anticipated from warehouse rents.

70. Assessed Taxes.—The last estimate of license-tax receipts for 1882-83 amounts to Rs. 15,20,000, against Rs. 16,39,000, the actuals of 1881-82. The decrease is due for the most part to reduction of receipts from penalties, a large portion of which could not be expected to recur during the year. There is a tendency of the receipts to increase during the current year. The estimate stands at Rs. 15,50,000, which has been accepted by the Government of India. One-half of this is Provincial.

71. Forest.—The Government of India has reduced the local estimate under this head from Rs. 8,80,000 to Rs. 8,00,000. The reduction appears specially in the estimate of the Kurseong and Singbhoom divisions, and under

the head of bamboos. The Provincial share amounts to Rs. 4,00,000.

72. Registration.—The original estimate under this head was Rs. 10.42,000. The Government of India has reduced it by Rs. 31,000, and has adopted the estimate originally sanctioned for the past year. The estimate of this Government provided for an increase of Rs. 31,000, because it was anticipated that the registration of a large number of Indigo contracts and of documents connected with the settlement operations in Durbhunga would be effected during the current year, and it was considered that the receipts from searching fees under the rules of the High Court were likely to increase. The last estimate of the past year amounts to Rs. 10,40,000. The estimate of Rs. 10,42,000 will be retained for 1883-84. Half of this amount is Provincial.

78. Law and Justice.—The total receipts for 1883-84 under Law and Justice (Proper) have been estimated at Rs. 8,75,000, against Rs. 9,06,000, the first estimate for the past year. The decrease is owing to a certain extent to the more extended use of court-fee stamps, and to a consequent reduction in the amount paid as tees. An increase of revenue from this source has been provided in the Stamp budget. The original estimate of the Inspector-General of Jails placed the sale proceeds of jail manufactures at Rs. 12,43,000. These included receipts for goods supplied to the jails and departments coming under Law and Justice, which could not, under existing orders, be credited in the accounts. The estimate under the head of Jails amounts to

Rs. 9,35,000. The gross estimate under Law and Justice will be at

Rs. 18.10.000.

74. Police.—The actuals in 1881-82 amounted to Rs. 5,23,000, and the revised estimate stood at Rs. 4,86,000. The estimate for the current year is Rs. 6,25,000. An increase is anticipated under "Recoveries on account of village police," and a provision of Rs. 65,000 has been made on account of "Deductions from policemen for clothing." These recoveries have not hitherto been shown in the general accounts, but have been deducted from the pay of the police, the net pay only being charged in the accounts.

75. Marine.—The estimate under this head amounts to Rs. 8,95,000, against Rs. 8,28,000, the original estimate for 1882-83. The estimate has been

accepted by the Government of India, and will stand.

76. Education.—The total receipts of the Education Department for 1883-84, exclusive of the interest on Government securities belonging to that Department, are estimated at Rs. 6,18,000, against Rs. 5,22,000 for the past year. The estimate for the current year includes a sum of Rs. 65,000 on account of contributions from municipalities for educational purposes. Some increase is also anticipated under "Fees and fines of schools and colleges." The estimate, which has been accepted by the Government of India, will stand.

77. Medical.—The receipts are estimated at Rs. 1,37,000, against

Rs. 1,36,000, the actuals of 1881-82, and will stand.

78. Scientific and other Minor Departments.—The public enquiry for cinchona febrifuge still continues to increase, but the demand from medical depôts has diminished. The total receipts in 1881-82 were Rs. 1,97,000, and the revised estimate for 1882-83 amounts to Rs. 1,65,000. The estimate for 1883-84 has been taken at Rs. 1,71,000.

79. Interest.—The estimate amounts to Rs. 41,000, the same as the

revised estimate for the past year.

80. Superannuation.— The receipts are estimated at Rs. 79,000, against Rs. 74,000 for the current year. The increase is under the head of contributions for pensions and gratuities. The number of officers employed on duties outside the Government service has increased, but the rate of contribution has been reduced by the Government of India.

81. Stationery and Printing.—The receipts are estimated at Rs. 1,27,000, against Rs. 1,12,000, the original estimate for 1882-83. The increase is under "Sale of Stationery" and "Other Press Receipts." The revised estimate for

1882-83 amounts to Rs. 1,47,000.

82. Miscellaneous.—The receipts in 1881-82, exclusive of the sale-proceeds of durbar presents, were Rs. 7,01,000. The receipts formerly taken under "Other items" are now for the most part credited to the several departmental heads under orders of the Comptroller-General. The estimate for the current year is Rs. 6,82,000.

83. XXV.—State Railways.—The following table compares the estimates

for 1883-84 with the revised estimate for 1882-83:-

	1	1	Revised cutimate, 18d2-83.	Estimate of Local Government, 1888-84,	Estimate of India, 1583-54.
			Ra.	Rs.	Rs.
Northern Bengal Tirhoot Patna and Gya	***	• • •	<b>2</b> 2,00,000 <b>7</b> ,00,000 3,90,000	<b>24</b> ,00,000 <b>12</b> ,30,000 <b>3</b> ,50,000	23,00,000 12,30,000 2,50,000
Calcutta and South- Nalhati		***	1,68,000 70,000	1,25,000 72,000	1,25,000 70,000
	Total	0.1.4	35,28,000	41,77,000	89,75,000

The traffic on the Northern Bengal Railway continues to expand, the improvement being chiefly due to a steady growth in jute and tobacco traffic. An increase of Rs. 2,00,000 was provided by the Public Works Department, but the Government of India would reduce this to Rs. 1,00,000. Having regard to the progressive increase in the receipts of this line during the past few years, the Lieutenant-Governor thinks that the higher figure is well within the mark. The estimate of the local Government will be retained.

The extensions to Jhinjarpore and Motihari of the Tirhoot Railway have recently been opened, and with this addition to the open mileage it is

expected that the increase of Rs. 5,30,000, allowed for in 1853-84, will be realized.

The Government of India has reduced the estimate of receipts from the Patna-Gya Railway by one lakh. The net receipts are estimated at Rs. 3,20,000, of which one-fifth is payable to the East Indian Railway Company under the terms of the working agreement, leaving a balance of Rs. 2,56,000 to be oredited to Government for this. This amount will accordingly be taken as the estimate for the current year.

The estimate of the Calcutta and South-Eastern Railway for 1883-84, shews a decrease of Rs. 43,000 compared with the revised estimate for 1882-83. This is owing to the return of the rolling-stock previously hired to the Patna

and Gya Railway. The receipts from this source now cease.

The Government of India has placed the estimate of the Nulhati Railway at Rs. 70,000, the same as the revised estimate for the past year. As some increase is anticipated, the original estimate of this Government, amounting to Rs. 72,000, will be retained.

84. XXVIII.—Irrigation and Navigation.—The Government of India has accepted the local estimate of Rs. 12,00,000 under this head. The receipts during the past year will probably have amounted to Rs. 13,00,000, and there is no reason to suppose that the receipts during the current year will be less than those for the past year. The estimate will be raised to Rs. 13,00,000.

85. The Government of India has accepted the local estimates under

85. The Government of India has accepted the local estimates under XXXI, State Railways; XXXIII, Irrigation and Navigation; and XXXV, Civil Buildings, Roads and Services. The estimates will stand at Rs. 2,45,000,

Rs. 7,81,000, and Rs. 7,84,000, respectively.

## EXPENDITURE.

86. Refunds.—The difference of Rs. 4,000 under this head between the estimate of the Government of India and that of the Local Government represents the Provincial share of the rents payable to the superior landlords on account of the subordinate tenures in the escheated estates of Gya. This amount was added after the budget had been passed, and has probably not been included in the estimate of the Government of India. The local estimate of

Rs. 1,18,000 will stand.

87. Land Revenue.—The estimate, as originally sanctioned by this Government, was Rs. 30,93,000. The total cost of surveys and settlements was estimated at Rs. 1,90,700, and the Provincial share at Rs. 61,800. The Government of India has raised this estimate by Rs. 10,000, and the Provincial share by Rs. 3,000. A reference has been made to the Government of India as to the inadequacy of the allotment made in the new contract to cover the charges which will be thrown on the Provincial Revenues according to the classification recently prescribed. Pending the result of this reference, the estimate of this Government will be retained. An addition of Rs. 60,000 will, however, be made under this head to cover the increase in the allotment for the charges on account of Government estates, which has been granted to meet the requirements of local officers. The total estimate will stand at Rs. 31,53,000.

88. Salt.—The estimate amounts to Rs. 21,000, against Rs. 18,000 for the past year. The increase is chiefly due to large provision being made for

petty construction and repairs of the Chittagong golahs.

89. Stamps and Excise.—The local estimates of expenditure under Stamps and Excise have been accepted by the Government of India, and will stand at Rs. 2,15,000 and Rs. 1,39,000 respectively, against the revised estimate of Rs. 2,12,000 and Rs. 1,34,000 for the current year.

90. Customs.—The estimated expenditure for 1883-84 amounts to Rs. 496,000, shewing a decrease of Rs. 2,09,000 compared with the original estimate of Rs. 7,05,000 for the current year. The decrease is due to reductions in the Customs establishments owing to the abolition of the import duties.

91. Assessed Taxes.—A provision of Rs. 1,00,000 is made for the collection of license-tax during 1883-84. The same amount was fixed for 1881-82 and 1882-83. The expenditure on this account is equally divided between the Imperial and Provincial Governments. The Provincial share amounts to Rs. 50.000.

92. Forest.—The Government of India has passed the estimate under this head for a round sum of Rs. 5,00,000, against Rs. 5,20,000 adopted by this Government. A reorganization of the subordinate forest establishment has since been sanctioned at an annual cost of Rs. 90,000, against Rs. 72,600 provided in the budget, and the excess expenditure will have to be met from savings. The estimate of the Government of India will stand.

03. Registration.—The Provincial expenditure under this head is estimated at Rs 3,12,000, against Rs. 3,15,000 for the past year. The reduction is mainly due to changes made in Chittagong and Arrah, under which the sub-registrars of those places, who were formerly in receipt of Rs. 200 per mensem

each, are now paid partly by fixed salaries and partly by commission.

94. Administration—The actual expenditure in 1881-82 amounted to Rs. 14,72,000. The estimate of the Local Government for 1883-84 was Rs. 14,89,000, and this has been raised by the Government of India to Rs 14,90,000. The increase in 1883-84 is partly under "Secretariat Establishment" and partly under "Examiner of Local Accounts," the Government of India having sanctioned additional establishments for the extension of the system of local audit. The revised estimate for the past year is Rs. 15,07,000. There has been reduction in the Customs Department of the Beard's Office. The estimate for 18-3-84 will be Rs. 14,89,000.

95. Law and Justice.—The Government of India has adopted the estimate of the Accountant-General as originally submitted to this Government. This estimate made no provision for the pay of an additional Subordinate Judge for the new district of Khoolna, or for the personal allowance of Rs. 100 per mensem of the four Subordinate Judges now in the grade of Rs. 600, and getting Rs. 100 extra each. On the other hand, his estimate of charges for the service of judicial processes was reduced, and the hospital charges of "Central Jails" were increased with reference to the probable requirements of the year. The Lieutenant-Governor would retain the estimate of Rs. 96,45,000 as originally passed.

96. Police.—The estimate of police charges, including refunds, amounts to Rs. 47,75,000 against the original estimate of Rs. 45,81,000 for the past year. The large increase is mainly due to the amalgamation of the municipal with the regular police, and to additional provision for the Chittagong Frontier

Police.

97. Marine.—The actual expenditure in 1881-82 was Rs. 10,55,000. The revised estimate amounts to Rs. 9,09,000, and the estimate for 1883-84, including refunds of Rs. 6,000, to Rs. 8,56,000. The large decrease in 1882-83 and 1883-84 is due to the transfer of the Port approaches and the False Point light-house to the Port Commissioners. The revised estimate for the past year also includes a large expenditure for ship-building, which it is expected will not recur in 1883-84. A grant of Rs. 6,000 has been made to the Bolosore Port Fund, which will be adjusted under this head. The estimate will stand at Rs. 8,62,000.

98. Elucation.—The original grant for 1882-83 was Rs. 29,60,000. The revised estimate amounts to Rs. 30,11,000, and the Accountant-General's estimate for 1883-84 provides for a total expenditure of Rs. 31,94,000, which includes an additional provision of one lakh for primary education over the grant for the past year. A sum of Rs. 2,000 has been added to the Accountant-General's estimate for travelling expenses of Inspectors of Schools, Rs. 2,000 for a building grant to the St. James' Boys' School, and Rs. 5,000 to the grant for primary education in Government estates. The estimate, as passed by the

Local Government, amounts to Rs. 32,03,000, and will stand.

99. Medical.—The actual expenditure in 1881-82 was Rs. 10,75,000. The revised estimate of the past year amounts to Rs. 13,55,000, and the estimate for 1883-84, including refunds of Rs. 8,000, to Rs. 14,02,000. The large increase in 1882-83 and 1883-84 is due to the transfer to Medical Establishment Proper, from Imperial to Provincial, the cost of which is estimated at Rs. 4,70,000. Against this increase there has been a decrease under hospitals and dispensaries, owing to the transfer to municipalities of the hospitals and dispensaries situated within municipal limits.

head amounts to Rs. 3,66,000 against the original estimate of Rs. 3,06,000 for

the past year. A provision of Rs. 11,000 has been made on account of the proposed extension of the cinchona plantation to the trans-Teesta portion of the Darjeeling district. A provision of Rs. 60,000 has been made for the International Exhibition to be held in Calcutta in the middle of 1883-84. The

estimate of Rs. 3,66,000 for the current year will stand.

101. Superannuation.—The charges for 1883-84 were originally estimated by the Accountant-General at Rs. 12,16,000, against the original estimate of Rs. 10,28,000 for the past year. A sum of Rs. 50,000 was provided for marine pensions, which were formerly adjusted under the head of Imperial Marine. The provision has been struck out, as the marine pensions were not made Provincial in the new contract. The revised estimate for 1882-83 amounts to Rs. 11,80,000. The increase is mainly due to the premature retirement of Customs officers. The charges for bounses and gratuities will not be so large as in 1882-83, and the total estimate has been placed at Rs. 11,67,000.

102. Stationery and Printing.—The difference of Rs. 9,000 between the estimate of the Government of India and that of this Government represents the amount by which the Local Government reduced the Accountant-General's estimate of the cost of printing for the Opium Department at private presses. The Board of Revenue reported that there was no necessity for this provision.

and it was struck out. The local estimate of Rs, 9,51,000 will stand.

103. Miscellaneous.—The Government of India has entered Rs. 3,74,000 as the estimate under this head, made up as follows:—

						Rs.
Imperial				* * *		45.(4)()
Provincial	0.00		* * *			3,09,0-0
Local		4.0 .		* * *	* * *	20,000
				Total	4 + 1	3,74,000

The Provincial expenditure amounts to Rs. 3,09,000, and to this has been added Rs. 3,38,000 on account of miscellaneous refunds. The grant will stand at Rs. 6,47,000.

104. State Railways (36).—The details of the estimates under this head, compared with the revised estimate for 1882-83, are as follow:—

			Revised estimate,	Estimate	r, 1883-94,
			1892-83, Rs.	Local Government.	Government of India.
Northern Bengal	* * *		10,60,000	11,49,000	11,00,000
Tirhoot			4,65,000	6,71,000	7,30,000
Patna and Gya			2,60,000	* * * * * *	491
Calcutta and South-E	lastern		1,18,000	91,500	92,500
Nulhati	0.0	* * *	62,500	61,000	62,500
	Total		19,65,500	19,72,500	19,85,000
			the same of the sa		

An increase of Rs. 89,000 was provided in the estimate of the Northern Bengal Railway to cope with the larger traffic expected, and also to provide for extensive renewals of sleepers found to be necessary. The Government of India has reduced the anticipated increase of expenditure to Rs. 40,000.

The large addition made in the estimate of the Tirhoot Railway is due to

the additional lengths of line recently opened to traffic.

No provision has been made for the Patna-Gya Railway, as it will be worked by the East Indian Railway Company. A reduction of expenditure is anticipated in the Calcutta and South-Eastern Railway.

105. Irrivation and Navigation (39) .- The Government of India has

adopted the local estimate of Rs.10,84,000.

106. Interest.—As explained above, the Local Government is not liable for interest charges on the capital expended and to be expended on the Ranaghat-Bhugwangola line. The estimate of the Government of India, amounting to its. 37,89,000, will be reduced by its. 9,000.

107. State Railways Capital Account (42).—The difference of Rs. 15,000 under this head between the estimate of the Government of India and that of Bengal is due to the refund of Rs. 15,000, advanced from Provincial Funds in 1852-83, for the Tarakessur railway survey. The estimate of the Government of India will be adopted.

108. Subsidized Railways (44).—The provision of Rs. 70,000 made under this head is for the cost of the land which will be taken up in 1883-84 for the Baidyabutty-Tarakessur Railway.

109. Civil Ruildings, Roads, and Services. - The grant under this head is

raised to Rs. 44,62,000.

110. Contribution.—A sum of Rs. 7,50,000 was originally reserved for contributions to municipal and other local funds. It is doubtful if so large a provision will be required in the current year, and the estimate will be reduced to Rs. 5,00,000.

111. Incorporated Local Funds.—The following table shews in one view the actual receipts and expenditure of the Incorporated Local Funds during 1881-82, the revised estimates for 1882-83, and the estimates for 1883-84:—

٠	Actuals, 1881-82.	Revised estimate, 1882-83.	Estimate of Local Govern- ment. 1883-84.	Estimate of Government of India, 1883-84.
RECEIPTS.	Rs.	Rs.	Rs.	Ra.
Opening balance .	19,47,000	15,76,000	16,01,000	13,04,000
Estates Improvement Fund	9,000 3,16,000	\$9,32,000 7,000 3,55,000 64,000 2,84,000	36,73,000 6,000 3,17,000 74,000 3,47,000	36,55,000 6,000 3,17,000 74,900 3,10,000
Total .	46,16,000	46,42,000	44.17,000	43,62,000
GRAND TOTAL .	65,63,000	62,18,000	60,18,000	56,66,000
Expenditure.				
Ditto Road Account Ditto Post Fund Estates Improvement Fund	43,18,000 55,000 3,02,000 1,13,000 60,000	41,95,000 57,000 3,17,000	48,49,000 52,000 3,24,000	48.43,000 62,000 8,24,000
Containation to Duraningial	1,39,000	46,000	61,000	61,000
Closing balance	49,87,000 15,76,000	46.17,000 16,01.000	52,80,000 7,38,000	<b>62,80,000</b> 3,86,000
GRAND TOTAL .	65,63,000	62,18,000	60,18,000	66,66,000

The revised estimates for 1882-83, as shown above, have been framed with reference to the latest figures of the year received from the Accountant-General. This estimate shews that the receipts in the past year, including the grants-in-aid from Provincial Funds, may have amounted to Rs. 46,42,000, and the expenditure to Rs. 46,17,000. There was thus a surplus of Rs. 25,000, instead of a deficit of Rs. 1,65,000 as estimated in the Resolution of 18th April 1882. For 1883-84 the Government of India has accepted the estimates of receipts and expenditure as originally submitted by the Accountant-General. The Lieutenant-Governor, with reference to the actuals of 1881-82, raised the estimate of miscellaneous receipts of the District Road Fund by Rs. 20,000, and reduced those from the 1 per cent road cess by Rs. 2,000. The estimate, as passed by this Government, will accordingly stand.

By order of the Lieutenant-Governor of Bengal,

COLMAN MACAULAY,

Secretary to the Government of Bengal.

PROPORTION IN WHICH THE PAY OF MEDICAL OFFICERS IN CHARGE OF MUNICIPAL DISPENSARIES, SUBSIDIARY JAILS AND SUB-DIVISIONS, IS TO BE PAID BY GOVERNMENT AND MUNICIPALITIES.

MUNICIPAL DEPARTMENT-MEDICAL.

Darjeeling, the 4th July 1883.

BESOLUTION.

In the Resolution of the Financial Department, dated the 20th February 1882, by which municipalities were relieved of all charges on account of police, and were, on the other hand, required to bear the cost of maintaining dispensaries aituated within municipal limits, no orders were passed to define what proportion of the pay of a medical officer, who was in charge both of a municipal dispensary and of a sub-division and lock-up, was to be considered a charge against the dispensary. Experience has shown that in almost every case the charge of a municipal dispensary can be conveniently united with that of a sub-division, without detriment to the work of either, and that it is unnecessary to maintain two medical officers at the head-quarters of a sub-division—one, the servant of the municipality, in charge of the municipal dispensary; and the other, the servant of Government, in charge of the sub-division and subsidiary jail. By amalgamating the two appointments, the salary which one of these officers would have drawn is saved, and the question arises as to the proportions in which the saving should be divided between Government and the municipality.

2. A medical officer holding the dual appointment is entitled to draw—(1) his grade pay; (2) any special allowances to which he may be entitled under the rules on account of the dispensary, sub-division, or subsidiary jail. The additional allowances present no difficulty. A dispensary allowance would be paid by the municipality; while those for the sub-division and jail would be borne by Government. Hitherto, however, no fixed rule has existed as to the incidence of the grade pay. This is sometimes borne wholly by Government, sometimes wholly by the municipality, and sometimes in varying proportions by both. The Lieutenant-Governor considers that this anomalous state of things should not be allowed to continue, and that some definite principle should be laid down to regulate the proportions in which the charge

should be shared between Government and the municipality.

3. The Lieutenant-Governor has consulted the Surgeon-General and district and divisional officers on the subject. The Government undertakes, as a part of the medical administration of the province, to maintain a civil medical officer at the head-quarters of every sub-division, irrespective of any arrangements that may be made by municipalities for the charge of their dispensaries. When the services of an officer of this class are in part lent to any municipality, it would not be unreasonable to require that a corresponding part of his salary should be paid by the Municipality. The Lieutenant-Governor, however, desires to treat local Government bodies with the utmost liberality in his power. He has therefore resolved that, when any municipality desires to utilize for the charge of its dispensary the services of the medical officer provided by the Government for the charge of the sub-division, it shall be entitled to avail itself of those services on payment of the usual dispensary allowance only, and shall not be required to bear any part of the medical officer's grade pay. On the other hand, however, it would manifestly be unjust that, in such a case, Government should be expected to post to any sub-division a medical officer of higher qualifications than are needed for the proper discharge of the Government work alone, i.e., for the medical charge of the subsidiary jail and sub-division, apart from the municipal dispensary. The Surgeon-General is of opinion that the requirements of an ordinary sub-division will be adequately met by appointing a civil hospital assistant of the lowest class. The Lieutenant-Governor therefore directs that the pay of an officer of this class shall be considered to be the standard pay of a sub-divisional charge, and shall be borne wholly by Government. In some sub-divisions, however, exceptional circumstances will probably render it necessary to provide an officer of higher qualifications. In all such cases, the class of an officer to be appointed will be settled authoritatively, and his pay will be borne entirely by Government. Thus, if a civil hospital assistant of the third class is sufficient for the requirements of both the sub-division and the municipal dispensary,

his entire salary will be borne by Government, the municipality being only required to pay his dispensary allowance. Similarly, where an officer of a higher class than a third class hospital assistant is appointed to the subdivision on the part of Government, the municipality will not be called upon to make any contribution towards his grade pay, if his qualifications are such

as to meet their requirements.

4. On the other hand, cases will probably arise in which the charge of a municipal dispensary may require, for its proper conduct, an officer of higher professional qualifications than is needed for the medical charge of the subdivision and subsidiary jail apart from the dispensary. In such a case the Lieutenant-Governor will be prepared to appoint to the dual charge an officer of the Government establishment of such qualifications as the municipality may desire, provided that his services can be made available on the condition that the municipality are prepared to pay the whole difference between his grade pay and that of the standard Government medical officer sanctioned for

the sub-division, besides paying him the usual dispensary allowance.

5. The Surgeon-General will be requested to prepare at once, in consultation with the local civil and medical officers, a list of all the sub-divisions in the province, classified according to the grade of medical officer they require for the Government work alone; and the proportions of the charge on account of the medical officer's pay to be borne by Government and the local municipality respectively will in each case be determined in accordance with the principle now taid down. This principle will also be applied, mutatis mutandis, in the case of any sub-division at the head-quarters of which there is a dispensary in class I of the rules, which is maintained otherwise than by a municipality, and the supporter of which is desirous of availing himself of the services of the Government civil medical officer in charge of the sub-division

ORDER-Ordered that a copy of the above Resolution be forwarded to the

Surgeon-General for information and guidance.

Ordered also that a copy of the above Resolution be forwarded to all Commissioners of Divisions for information and for communication to all municipalities in their divisions.

By order of the Lieutenant-Governor of Bengal,

COLMAN MACAULAY,

Secretary to the Government of Benyal.

# - Rainfall, Weather, and State and Prospects of the Orops.

Statement sauwing Rainfall, Weather, and State and Prospects of the Crops in the different Districts
of Bengal, as reported to Government during the week ending the 7th July 1888.

No.		District, and day	te of	1	Rainfall at Sudder	
RNG	1	, , , , , , , , , , , , , , , , , , ,			Station in	
AC 14 44 7			-			
	M 1.	 Waatorn Diatri	nta.			
/ 2	1	Burdwan, July	_	'88'	0.08	Weather-cloudy, with drizzling showers at intervals. In the Cutwa su
		Runeegunge			3.	division agricultural operations have been retarded for want of rain. I
	1	Culna			0.72	sufficient rain is also reported from Culna. In other parts of the district, plong
1 .		Cutwa	-	***	1.48	ing and transplanting are in progress and prospects are fair.
1 3	j	Bankourn, "	8	00	8·11 2·97	Weather-hot, cloudy, and rainy; very favourable for cultivation. Biri kalai being sown. Both early and late rice are being transplanted. Prospects
		Muliara			1.85	crops are promising Public health good.
1	1	Khutra			2 89	or he are browning
( 8		Beerbhoom	7	5.0	2 92	Weather-showery and seasonable. Cultivation of rice crop going on brisk
	-	Rumpore Haut			0.06	Prospects satisfactory. General health good. A few cases of cholera
1 4	1	Widnispore, a	7		8.16	south of district.  Wenther-cloudy and rainy. Rains did good to the cultivation. Sowing
		99		00		paddy still going on Public health good.
6		Hooghly, "	7		2.91	Weather-high wind and rain. Prospects of crops good. General heal
	-	Chause h Tutu			0.01	good.
		Howrah July Oolooberia	9	29	2·81 8·41	Weather-showry. Transplanting of winter rice begun. Ass rice, jute as sugarcane growing healthily. No further report of injury to jute by floods.
,		Control Distric	rta.	***	0.87	sugarcane growing nearently. No intenst report of injury so just by noons.
/ 6		24-Pergunnahe, July		183	8.46	Weather-cloudy and rainy. The early crops are doing well. Transplanting
						of amus rice is going on in low lands. High lands are being prepared for
gra.		1724.00	940			the ourpone. Public health is generally good.
1		Nuddea, ,,	8	**	1.85	Weather - cloudy, rainy and cool State of crops fairly good. Manufacture indigo commenced. Fever stationary.
		Meherpore		***	1.97	someto communication a constituent.
		Choondanga			0 69	
		Ranaghat	400	0.0 -	2 51	
8		Khoolus, "	7	93	2 50	Weather-cloudy, with constant showers. Transplanting of amus rice h
9		Jessore,	7		1.24	begun; prospects are good. Public health is good. Weather—cloudy, with occasional showers. The rice crop is thriving, but mo
	1	Bongong		29	2.85	rain is urgently wanted. Prospecia continue good. Public health good exce
	٦	Jhonida			2 27	in Bongong, where fever is still prevalent.
		Narail		10.	0.19	
10		Magura Moorahadabad	7	***	2.13	Weather-hot Prospects of the crops continue to be favourable. Transplanti
		Augustion 11		99	* 00	of amus has commenced in some places. Health generally good.
11		Dinagepore, July	6	'83	0.26	Weather-cloudy, with rain at intervals. Bhadoi dhan is fast coming into a The transplanting of amas still continues. Jute is doing well, except
13		tanjahah vo.	177		1.25	Rajarampore. Rice selling at from 17 to 28 seers per rupee.  Weather—occasional light showers. East wind varying in strength. Pade
		Nattore		91	1.60	requires rain. Other crops doing well.
		Nowgong		0.00	0.31	
18	Ţ,	Rungpure ,,	7	100	0 04	Weather—seasonable. Prospects of standing crops good. Transplanting ones and harvesting of see going on. Cases of cholera reported from the
200	æ	Kurigram		0001	0.30	Nilphamari division of the district.
	E.	Nilphumari				
16	٠	Bugera, "	7		1.68	Weather-only a good fall of rain during the week, and a slight drizzle nex
	1					day (5th). Transplanting of amus commenced. Jute and aus paddy are doing
15		ubna.	12		1.50	well. General health good.  Weather—changeable; first cool with northerly winds followed by still hot day
	1	1102380 11	8	9.0		Crops doing well. Rain wanted. Rivers falling.
16	1	Darjeeling, ,,	7	,,	3 17	Weather-seasonable. All native crops doing well. Harvesting of marging as
	-					makes in the hills has commenced. Outturn of ten to date on the whole belo
17		l				last year's. There is still some cholera about both in the Hills and Termi. Weather—seasonable. State and prospects of the crops generally favourab
2.0	1	luipigoree, ,,	7	9.0	7.00	Ryots in one part of the district seem to have mismanaged their transplantin
						Cholera still langering in the district.
	1	Cooch Bohar, "	7	20		Weather-very close and hot The break in the rains has been good for the
	1	Dinhutta		***	8/115	crops, both jute and rice have been benefitted. Cholera prevails at Matabangh
		methodat.			9-21	abating elsewhere.
		Mathabhanga up to 80th.			0.41	
	1	Meckligunge			9.78	
	1	up to suth				
3.0	1	Bostern testrio		Agu.	0.00	Weekley severable Beacht and death and the severable to
18	1	Dacos July Manickgunge	7	88	0.98	Weather-sensonable. Roach's and shail paddy, moong and kalai are being sow.  Aus is being harvested. Harvesting of jute commenced. Aman, jute an
	1	Munshikunge		* * * *	2.72	sugarcane thriving well. Crops have to a certain extent been damaged owing
	1	Naraingunge		0 0 6	1.62	the sudden rise of water. Jute has to a certain extent been destroyed by worm
3.64	1		17		0.70	in Nowabgunge station.
16	1	Goalundo		20	0.88	Veather—generally fair and breezy. State and prospects of the crops still ver fair. The rivers are pretty high with the water from up-country, but ver
		Mudaripore		***	1.80	little rain has yet fallen in the district, and much more is wanted. Publi
				1		health pretty good, but there is some fever.
20	14	legearit upite. H	6	20	4.78	Venther seasonable. Prospect of any crop is good. Cultivation of amon
0.3		danis and	0		0.40	progressing. General health of the district is good.
21	1	Lymensiugh, ,	6	00	0.46	Weather-grown much warmer, but little rain, cloud or wind during the week More rain is wanted for the rice crop. Jute and one promise well in north-wes
	1	Jamaipore Kahoregunge			Not	and south-west, but not so elsewhere. Amus being sown. Lubic health
	1				eccived	generally good.
		Pasas			0.42	
		Attea Notrokona		2001	051	•

	lo.	District, a	nd dat	e of		Rainfall at Sudder Station in inches	
		L —concld.					
Cas		Districts cor Chittagong	neld. July	10	'83	1.78	Weather-seasonable. Transplanting of aus rice nearly over. Sowing of amus
DIVE	23	Noakholly,	22	5	99	7.48	actively going on. Prospects fair Prices stationary, sporadic cholers and cattle-disease continus. Fever abating.  Weather—generally cloudy with occasional rain and coldish towards the morning. Aus paddy is ripening and amon is being transplanted, generally low
PHILTAGORE	24	Tipperab,	19	5		4.78	parts of the district are flooded.  Weather—seasonable. Early rice, jute, and sugarcane progressing well. Repor-
TA		Brahmun			* *	8·47 5:80	of some damage by insects to early rice plants, not serious, received from four of the police stations of the district. Public health generally good.
200	25	Chittagong H		8	00	3.62	Weather-occasional showers; heavy thunderstorm on the afternoon of 2nd
-		Fracts.	. ,,	7		6.91	Jhun paddy doing well, but cotton crop will be very short.  Weather-warm, rainy and seasonable. Amun paddy being transplanted. 25
ED ac	HAR		. ,,		3.0	001	being gathered. Prospects of sugarcane fair. Public health good.
D III.	M V K			-			377 13 1 1 1 1 3 1 1 1 1 1 1 1 1 1 1 1 1
,	- 36	Patna. Barh	July	7	*48	Nil 0-1	Weather—hot and cloudy. Sowing of bhadoi and paddy is going on. Sugaroan is progressing. Choicen still reported from Behar and Silao thana.
		Behar				2.77	4
	27	Dinapore	89	7	s Þ	2 00	Weather—cloudy and cool with high wind Paddy, Indian-corn, and pulses arbeing sown under favourable suspices. Cholera is abating, but cattle-pox is very prevalent.
MAR.	38	Shahabad, Buxar Sasseram		7	**	0 67 0 09 0 80	Weather-hot and cloudy at intervals. State and prospects of the crop favourable.
PATER DIVE.	20	Blinbouah Durbhungu,	81	7	183	0.40	Weather—hot and cloudy with east wind. Agricultural operations in rapi progress. Murwa, makai and dhas being transplanted Prices stationary
	80	Mozud-rpore, Hajespore		7	**	0·87 0·17	Cholera almost yone, Weather - cloudy and showery with intervals of strong aun. The weather i very favourable to the young crops which are coming up. Sowings and trans
		Seetamu			***	0.70	planting make good progress.
	81	Sarun. Sewan	4.0	7	0.0	8:97 0:04	Weather-generally cloudy and hot. Sowings of bhadoi crops going or Transplanting of paddy in low lands has commenced. Manufacture of indig
		Gopalgun	ige			Nil	has begun; prospects on the whole good. Sporadio cases of cholers, and small pux reported from Gopalgunge sub-division.
)	32	Снимригии	0.1	7	3.0	4.8	Weather—cloudy with high winds and showers. All crops looking well. Bhade and agham sowings in progress. General health fair.
	83	Monghyr, Begusorai	July	7	,88	0·11 Nil	Weather—hot and cloudy, Bhadoi and aghami cowings progressing. Prospect favourable. Public health good.
AE CIVE.	84	Jamui Bhaguipore,	"	7	**	0.11	Weather -hot; more rain in south of district than in the Sudder or northern and divisions. In the part of the district south of the Gauges the prospects are good. In the north the prospects though not so good, are fair. Ploughing and sowing going on actively General health good.
	88	Purneah.	00	7	2.0	1 59	Weather-steamy. State and prospects of crops very good. Health fair.
DHAWULFORE	86	Maldah,	00	7		0.13	Wenther—sky clear; moderate south-east wind and occasional showers of rain  Jali rice is being reaped. The standing crops, such as bhades, assum  makai, and khers, are doing well, but more rain is wanted. Public healt
1	87	Southal Pergh	IB. ,,	7	"	150	generally good.  Weather—cloudy, with occasional showers. Bhadoi crops promising. Transplant ing of rice crop progressing.
		Godda Rajmebal				2.05 Nil	
		Jamtara			940	1.48	
(		Pakour				0.77	
1	88A 88	Cuttack,	July	6		9.53	Weather—cloudy and rainy. Beati and sorad rice are growing well, but i some places the young plants have been submerged in consequence of heav rain, but no damage is reported. The rivers rose, but are now falling; only one breach in the Alanka bund has been reported. Prices stationary. Publi
	89	Pooree,	11	5	10	Not given.	health generally good.  Wenther—very wet, Heavy rain all over the district. The rivers are sa flood embankments have been breached in three places and some damage to crop
	40	Khoorda Balasore,		a		10-54	in low lands is anticipated. Miscellaneous crops thriving. Common rice selling at from 25 to 36 see, s for the rupes. Public health good.  Weather—cloudy and ramy with occasional gleams of sunshine. Rainfall in Jun
1	40	wantore,	93	0	0.0	5 5 7	about 18 inches, not far from one-third the average fall of the year. Crop are doing well. Re-ploughing is going on. Rice selling at from 25 to 44 sees to the rupee. Public health generally good.
Н (		MAGPORE. th-Wast Front Agency.	ior				
	41	Humilbuga,	July	6	'88	8.25	Weather-warm and cloudy. Sowing of bhadoi and early rice crops continued
	42	Lohardugga Palamow	62	7	'88	6·35 32	General prospect good. Public health good. Weather—showery. A breek would do good at head-quarters. Cutting of Jewidhan has begun. Prospects favourable. In Palamow, though little rain has fallen, matters are satisfactory. There have been a few cases of cholers in
	48	Singbhoom,	44	6	,,	6.30	Humannabud Prices steady. Weather—seasonable. The rainfall has been general and abundant. Every
	4.4		**	Per	- 1		thing doing well. Prospects fair. General health good.
	44	Manbhoom, Govindpor	10	1		6·63 1·42	Weather-rainy and cool. Prospects of rice crop and of upland crops very promising. Public health good.

# STATEMENT SHOWING THE STOCK OF BICE IN AND AROUND CALCUTTA.

				4	Втоот	OF STAND AS	EO GETLED OE-						
NAMES OF MARTS.	lst week of July 1884.	1st week of Angust 1882.	1st week of Sopt. 1888.	1st week of Oct. 1882.	1st week of Nov. 1862.	1st week of Dec. 1882.	lat work of Jan. 1883.	1st week of Feb. 1585.	lst week of March 1889.	1st week of April 1585.	lat week of May 1885.	1st week of June 1883.	1st week of July 1888.
	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds	Mds.	Mon.	Mds
Ballaghatta	8,80,600	3,99,000	4,17,500	4,21,000	8,69,080	2,50,600	8,85,800	6,30,500	7,40,000	8,35,000	0.59.000	6.52.008	5.67.500
Oolindangs	66,500	71 706	78,700	605,300	66,500	47.600	67,100	46,500	89,900	1,00,400	1.07.500	1.90.300	125.30
Chitpore, Golabarce, Comer- tooly, Bakkhola, and Culpy Chât.	6,39,700	7,68,800	7,94,700	7,05,500	6,49,600	6,95,200	6,62,050	6,11,640	7,22,500	9,14,200	7.92.900	9,50,100	9,50,400
Pathuriachatta, Posta, and Jorahagan.	16,500	81,500	22,540	28, 000	16,506	16,500	21,700	13,900	19,500	18,200	3,400	15,600	15.400
Tollygunge, Chitish, Kidderpore,	1,66,780	1,30,500	1,56,200	1,38,300	1,06,200	3,04,600	1,17,300	1,00,000	1,11,000	1,30,400	1,37,500	1,51,100	1,12,300
Si Minor Ramm (estimated)	2,46,000	2,48,000	2,40,000	2,40,000	2,46,000	2,40,000	2,60,000	3,40,000	2,40,000	2.40.600	2.40.800	9.40.608	\$ 40 mm
Other retail shope, 3,150 in number (cetimated).	2,50,000	3,54,000	1,50,000	3,50,098	2,50,000	2,50,000	2,60,000	2,56,090	2,50,000	9,50,000	1,50,000	8,50,000	2,50,000
Roldyshatty, Normhrunge, Ehuddreseur, and Chauder- natore.	18,919	21,136	15,873	185,08	17,181	8,750	7,994	6,012	6,978	12,628	13,555	10,397	11,986
Total	17,67,519	18,41,936	19,08,478	18,64,551	16,07,981	16,14,450	17,41,966	18,19,31\$	21,90,175	24,96,928	22,03,325	790,10,02	\$6,07,08
under of the river.  On bonto un- loaded  By Canal returns	4,996 (on 3rd July 82.) 84,688 (lat to 3rd July 82.) (lat to 3rd July 82.)	August 82.) (Srd to 5th August 82.) (Srd to 5th August 82.) (Srd to 6th State 64.191	6,222 (on find bept. 82.) 56,983 (1st to 3rd (1st to 3rd (1st to 3rd Sept. 1882.)	740 (on 5th Oct. 8.1) 39,455 (2nd to 4th Joc. 82.) 30,693 (2nd to 4th Oct. 82.)	6.60% Nor. 84, 25, N9 (1st to 3rd Nor. 82,) 24,095 (1st to 3rd Nov. 82,)	4, 408 (on 2nd Dec. 82.) (1st fo 37.125 (1st fo 3nd 1s. 482.) (1st to 3nd Lec. 82.)	8,673 dan. 85.) 36,600 (1st to 8rd dan. 63.) 1,22,775 (1st to 3rd dan. 63.)	730 (on 3rd Feb. 53.) (lef to 3rd Feb. 53.) 1,15,534 (lef to 3rd Feb. 53.)	S.876 (on Srd March 83.) (1st to 3rd March 83.) (1st to 3rd S2.019 (1st to 3rd March 83.)	8.736 (on 4th April 83.) (2nd to 4th April 83.) 75.538 (3nd to 4th April 83.)	(cm Srel May St.) May St.) (lat to Srel May St.) May St.) May St.)	(om eth June 83.) (ist to fird June 63.) 66.123 (let to fird June 63.)	(on Srd July 83.) (1st to 3rd July 83.) (1mt to 3rd July 83.)
Grand Total of Stories	18, 46,696	19,78,573	\$0,26,450	19,40,215	16,59,867	16,74,908	19,06,991	19,56,919	\$5,59,184	26,14,089	\$2,63,597	SA,62,287	29,72,037
Probable stock available for experiation by see.	8 lakbs.	94 takbe.	of lakhs.	9 lakhe.	6 lakha.	68 lakins	99 fakbs.	9 lakha.	12 lakhs	16 lakhs.	13 lakhs.	14 lakba.	121 takha.

STATISTICAL DEPARTMENT, The 7th July 1883.

Colman Macaulax, Secy. to the Govt. of Hengal.

# PRICES CURRENT of Food-grains, Firewood, and Salt in the

BETAIL SALE :- QUANTITIES PER RUPER BY

			V mean.		1	BARNET		Ri	ov, vne	E BOB		Ric	)B, 00	MMC	w.	BULE	noo, B	LLBY— LJBA.	GRBA	T MILI UM. Jo	WAR.
Norsber.	DISTRICTS.	Present return.	West preceding retain.	Corresponding return of last year.	Present roturn.	Nort preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.		Present return.	Nest agendine refere		Obrraponding return of last year.	Present return.	Nest proceding return.	Corresponding toture of last year.	Present refura.	Next preceding return.	Corresponding return
	BENGAL.																				
	ectoru Dietrists.	8. UL	B. Ch.	Uh.	8. Ub.	H. Ob.	B. On	e, ch	. B. Ch.	8. U	lb.   R	. Oh	. 8. (	7b  8	. (Jh	- 10. 17h	.jn. Uh.	B. Ch.	5. Ch.	8. Uh	8.01
1	Burdwas	16 O	15 @	14 0	20 0	80 0	40 0	18 19	19 0	91	6 8	3 13	94	0 3	. 0	***			et.	004	+00
	Bankoora	18 12	14 0	13 13	19 0	19 0	17 0	18 8	18 18	28	0 1	4 0	26	0 80	0					***	***
	Bearbhoom	16 O	15 12	14 0	•••	461	499	18 0	16 8	21	0 9	9 6	91	0 96	0			**			400
- 4	Midnaporo	16 0	14 0	14 0	16 0	17 0	400	18 0	18 0	20	0 5	6 0	24	0 9	0	***	***		rev	-41	+45
	Hooghly	18 B	18 8	18 0			***	10 0	10 0	10	0 1	8 8	18	8 94	0	000	***	+0		094	.00
-	Howrah	18 4	18 0	18 0	***	401	600	18 6	14 8	16	0 1	9 B	20	0 9	0	***		-		0.00	400
0	untral Districts.															las a					***
	Calcutta	14 0 F	1	16 0	97 1	19 6	96 8	10 6				6 0		0 12	0		20 0	004	***	000	196
6	34-Pergunashs	18 5 G	18 5	18 0	16 0	16 0	21 4	8 0	8 0	10	0   1	0 13	10	0 117	U	***	***	000	100	000	80
7	Nuddes	14 8 H	14 8	14 8	084	28 15	26 0	16 4	15 4	17	011	6 18	17	4 20	0			**	•••	***	***
8	Khoolna		000	***	***	***	100	17 0	17 0	16	0 5	18. 10	9.5	0 95	0	***		000	***	000	400
•	Jessore	14 8	14 8	16 0				16 0	16 0	10 1	9 1	19 19	89 1	2 34	6 66	***		••	<b>#</b> 04		***
10	Moorshedabad	16 0	17 0	16 0		***		15 0	16 0	17 1	2 1	9 0	119	0 2	0	***			10.	***	
23	Dinagepore	18 8	11 0	18 0		11 0	16 0	18 0	18 0	24	0 1	9 8	90	6 97	0	***		10	+44	004	
19	Rajobahyo	16 B	16 8	18 8 18 0	30 0	80 1	46 19	{ 18 to 16 to	to	18 to		7 4 to 8 0	17 18		19 to	}	441	10			
18	Rungpore	M 11 7	11 7	16 0		500	***	18 5	13 6	16	0 1	7 8	17	8 26	0				101	***	
14	Bogra	15 0	15 0	17 4		101		19 0	12 0	16	8 2	4 0	94	0 28	2		***	**	* +01	001	
16	l'ubma	19 B	19 8	18 12	***	***	41.	8 0	8 0	10	0 1	9 8	17	4 34	0		***	19	191	101	
16	Darjesling	8 0 P	8 1	8 0	8 0	8 0	8 0	4 0	5 0	5	0	8 0	9	0 18	0	101	100	10	100		5.
17	Julpigoree	10 0	10 0	9 0	90 0	30 0	90 0	11 8	18 4	16	0   1	6 0	18	0 34	0	101	***		***	411	1
B	setern Dietriste.																				-
10	Dacos	-	14 8	12 4	18 19	11 0	82 U	15 8	15 18	29	0 1	9 4	19	4 26	19	19 0	***	000		101	1
10	Furraedpore	20 O	90 0	22 0	30 U	30 0	35 0	16 0	16 0	99	0 3	8 0	18	0 88	0	***	101	**	40+	***	-
80	Hackergunge	8	100	***	***	***	***	19 0	19 0	90	0 9	1 0	21	0 24	0	000			004		-41
21	Mymensingh	11 B	19 0	11 8	***	104	***	16 0	18 0	29	8 1	7 8	17	8 96	0	•••	***	10	***	***	7

A In the sub-divisions retail prices of ealt are as follow:—Cuins 18½ seers, Cutwa 11 seers, and Rancogunge 18 seers.

He tetail price of sait at Raippore 11 seers, Schamukhi 12 seers, and Mejia, Beshenpore, Indas and Kotulpore 12 seers.

In the sub-divisions retail prices of sait are as follow:—Unstal 12½ seers, and Tumlo & and Contai 11 seers.

In the sub-divisions retail prices of sait are as follow:—Scrampore 13½ seers, and Jehansbad 13½ seers.

In the sub-divisions retail prices of sait are as follow:—Baraset and Bussimus 13 seers.

In the sub-divisions retail prices of sait are as follow:—Saithira and naginhat 11 seers.

In the sub-divisions retail prices of sait are as follow:—Saithira and naginhat 11 seers.

In the sub-divisions retail prices of sait are as follow:—Saithira and naginhat 11 seers.

In the sub-divisions retail prices of sait are as follow:—Jhounda, Magura and Narail 13 seers, and Bongong 18 seers.

In the sub-divisions retail prices of sait are as follow:—Jhounda, Magura and Narail 13 seers, and Randi 11½ seers.

THE SERR OF SO TOLAHS.

AND	ов Ма	WA.	M ATS	CORN.	
retest retern.	fort prededing retorn.	Corresponding return of last year.	resent retern.	fert preceding menne.	Orresponding return

S. Ub.	8. Ub.	a. Ch	H Ub.	S. Ch.	8. Ch.
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	000	***		*	
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ı	-40	049	000		***	
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				1			Ch.					
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18	D	18	8	90	0	390	0	820	0	820	0	
21	0	21	0	28	8	160	0	900	0	160	0	
16	0	16	0	10	0	166	0	135	0	100	0	
17	0	17	0	81	0	120	0	190	0	120	0	
16	9	17	0	20	0	80	0	190	0	80	0	
17	19	17	12	28	0	90	0	90	0	90	0	
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80	0	20	0	22	0			eq.	.	1.0		-
16	0	16	0	19	0	160	0	180	0	160	0	
20	0	20	0	18	0	130	0	120	U	190	0	
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17	8	17	8	17	0	160	0	160	0	160	0	
81	0	21	0	24	19	340	0	240	U	940	0	
16	U	16	0	15	0	110	0	110	0	136	0	
15	12	16	12	18	12	00	0	67	8	67	8	
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lia	8	ha	R	21	0	100		90	0	as		
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16	0	16	0	19	0	120	0	120	0	04		
18	0	18	0	18	0	120	0	120	0	100	0	

# Districts of Bengal for the Fortnight ending 80th June 1883.

			WHOLESA	LE   RICES F OF 40 SKERS	ER MAUND		A	VERA	e w	GES	PER M	ONTH			
	SAIR.		SALT.		Agu	R-BOD ICULTU ABOUR	BAL		OR H	lonss- R.	CARP	ENTER LON M	. 08		
Present retorn.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding roturn.	Corresponding return of last year.	Present return.	Nort preceding roturn.	Curresponding return of last year.	Present return.	Nest preceding return.	Corresponding return of last year.	DISTRICTS.

																																		BRNGA	ille
N.																																		Western Dist	Irripto.
,8	. C	Jh.	8.	Ch	.  8.	Ch	1 1	R.	Δ,	P.	1 8	R.	<b>A</b> .	P.	R.		P.	6	Clp	. 9.	Ch	8.	Oh	Ra.A.	Re.	A-P.	REA	P	ta. I	1. B	te. A	Ra. A	1.		
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10		0	10			8			13	6	1	8	10	8	8	4	0	9	0	9	0		0	6 5	8 6		6 1	D	10	0	9		E	leerbhoom,	
1.5			-		18	8		3	14	0		2	14	0	8	0	0	6	-1-6	5	10	6	18	6	0 5	8	8 0-	₹1:	to U O	> 7	8	6 9 to 7 8	2 3	lid <b>napore.</b>	į.
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Retail price of salt at Raigunge 114 seers and Nitpore 12 seers.

In Nattore and Nowgong retail price of salt 12 seers.

In the sub-divisions retail prices of salt are as follow:—Gaibanda 10 seers, Nilphamari 12 seers.

Retail price of salt at Kurscong 8 seers and Silligores 10 seers.

Retail price of salt at Kurscong 8 seers and Silligores 10 seers.

Retail price of salt at Fallacotta in Alipore sub-division 10 seers.

In the sub-divisions retail prices of salt are as follow:—Manchegunge 11 seers, Moonsheegunge 10 seers 102 chittacks, and Naraingange 132 seers.

In the sub-divisions retail prices of salt are as follow:—Gaibando 102 seers, Madaripore 12 seers, Bhanga 11 seers, and Copalgunge 122 seers.

In the sub-divisions retail prices of salt are as follow:—Panuakhali 102 seers, Peroscopers 11 seers, and Bhoin 9 seers,

An the sub-divisions retail prices of salt are as follow:—Kishuregunge 102 seers, Attea 12 seers, Jamaipore 11 seers, and Netrokona 1912 seers.

# PRICES-CURRENT of Food-grains, Firewood, and Salt in the

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			W	10.20	A.T.				BAT	EEW:	k.		Ric	7B, 1	) iz oʻz	108	nt.		Krc	<b>33</b> , c	20 M	1601	в.		NEOO, I			WAT ME	
Namber.	DISTRICTS.	Present refafs.		Next preceding return.		Corresponding return		Present return.		Next preceding return.	Corresponding return	of last year.	Present return.		Next preceding return.		Corresponding record		Present return.		Next preceding return.		of last year.	Present return.	Next preceding return	Corresponding return of last year.	Probant rubites.	Nest preceding return.	Corresponding teguen
81	storn Districts.	-(Conc	lude	d,																								-	
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9	Chittagong,	. 12 U	0 1	9	0 1	9 (							18	0 1	8	0 20	0 (	20	0	99	0	28	0		***				446
3	Nonkholly	1		***		4 8 4	i	+ 0 0			**		80	0 9	10	2	7 (	98	0	29	0	81	0	10.0				Qui e	140
,	Tipperah	. 11	6 1	2 1	2 1.	1 6	3	100				.	18	8 1	7 (	3 35	9 (	10	4	20	0	28	8	+61					***
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	Hill Tipperah	10	0 1	0 (	0 11	1 0		400	7	•••			17	0 1	6 (	9	1	20	()	20	0	88	0		***			***	100
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-	Mosufferpore		) 1	7 (	16	0	80		20	0	80	0 1	8	12	0	13	0	16	0	17	0	16	U	480	***	.4	***	***	140
-	Sarus		0 1	7 0	16	8	27	0	27	-	80	0 1	0 0	10	0	10	0	18	0	18	0	21	0			100	80 0	29 0	89
-	Chumparus	19 (	1	9 0	18	0	36	-	40	0	86	0 1	3 0	18	0	12	0	17	0	18	0	21	0	***	-01	001	***	***	194
-	Monghyr	18 10	18	3 14	16	12	27	16	81	8	84	9 1	3 14	14	10	15	18	15	12	16	18	19	15	* 0 0		40-	•••	***	
1	Bhaguipore	Z6 16 6	16	6	14	8	27	12	27	8	30	1	5 2	16	13	18	15	17	10	17	10	22	12	***	100	*6	104	***	458
1	Purnesh	Z6 16 0	16	0	14	0					***	16	U	16	0	30	0	18	U	16	0	25	0				***		-
1	Maldah	17 0	17	В	16	U	**		1-01		***	14	U	16	0	16	0	16	0	18	0	19	0	***		*40	***	***	444
	Southal Perghe.	14 0	16	U	18	0			444		P 6 0	3.0	0	16	0	18	0	23	0	23	0	24	0	0	***	101	140	404	***
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	CHOTA NAGI	14 0 'URB.	1		16	0	**	,	04	Ì	000	1	3 0	10	0	26	0	110	0	28	0	82	0	100	100	-	***	***	100
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1	material		1																					***	***		***	100	190
1	Lobardugge	<b>36</b> 0	17	0	16	0	23	0	<b>19</b>	0	26 (	16	0	18	0	23	0	22	0	92	0	88	0	***	080	10	+00	+00	***
-	ingbhoom	18 0	20	0	20	0	88	0	8.9	U	28 (	86	u	58	0	36	U	40	U	36	0	40	0	***	***	100	090	100	101
-	Manbpoom	Z10	18	0	18	0				1		17	U	18	0	19	0	37	0	27	0	84	0						

In the integer retail prices of common rice vary from 81½ to 89½ accrs.

U. Retail price of sait at Kumeriah 10 ecors, and Hathazaree and Cox's Bazar 8 seers.

V. In the interior retail prices of sait range from 5 to 12½ ecors.

W. In the sub-divisions retail prices of sait are as follow:—Brahmunberiah 13 ecors and Chandpore 12½ seers.

X. In Nowada retail price of sait 10 seers.

Y. In the sub-divisions retail prices of sait are 10½ to 11 seers.

Z. In the sub-divisions retail prices of sait are as follow:—Madhubani 9 seers and Tajpore 13 seers.

Z1 In the interior retail prices of sait range from 9 to 12 seers.

Z3 In the sub-divisions retail prices of sait are as follow:—bewan 11½ seets, and Gopalgunge 19 seers.

CALCUTTA,
The 10th July 1888.

RAGI	on M on M o Chi	URWA	MAIS	CORN.	
Present return.	Neet preceding return.	Corresponding return of last year.	Present return.	Nost preceding return.	Corresponding return of last year.

681-1	100	001	***	***************************************	101
000	501	000	***	Rad/	***
	18 8			***	***
161	***	030	26 0	30 0	35 0
***	000	404	157	1	101
		***	1	***	
740	***	***	67.5	•••	44 8
***	***	***	27 14	88 9	33 9
400	***	000	000		41 0
30 0	30 0	51 0	29 0	80 0	31 0
500	***	***	88 0	32 0	35 0
80 0	40 0	83 0	80 0	40 0	39 0
4.1.8			***	***	***
191	***	***	• 4 4		***
444	***	***	89 0	82 0	34 0
861	***	***	***	***	***
600		***	***	***	441
000	400	***	***	111	0 0 1
***	***		***	481	***
949	***	***	***	441	

1014a

	GEAM.		P	IRBWO	010
Present return.	Nest preceding retarn.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return

A,	Ch.	8.	Ch.	B.	Ch.	H. 17	h.	8. C	h,	8, C	Bo .
12	0	12	0	16	0	60	0	40	0	80	C
19	0	12	0	14	0	101				***	
19	19	18	14	1%	0	***				***	
			0 = 4			390	0	390	0	820	0
12	0	13	0	16	0	***				***	

29	8	29	8	30	0	180	0	180	0 180	0
98	8	25	0	26	0	180	0	180	0 180	0
- 1	0	}	28 1	80	0	190	U	110	0 190	0
24	0	26	0	25	0	160	0	160	0 130	0
28	0	25	0	25	0	140	0	140	0 140	0
26	0	27	0	28	0	140	0	160	0 160	0
27	0	28	0	30	0	***		Dipo	400	-
25	18	26	6	81	8	196	0	196	0 126	0
24	0	84	10	29	10	196	8	151	8 151	8
22	0	20	0	23	0	160	0	160	0 160	0
28	0	23	0	26	0	190	0	100	0 190	0
21	0	90	0	90	0	900	0	900	0 200	at at

17	1	18	6	22	8	80	0	80	0	160	0
16	6	10	6	15	0	104	0	104	0	100	0
14	0	16	0	16	0	190	0	190	0	160	0

19	0	18	0	91	0	240	0 340	0 240,	0
14	0	14	0	19	0	110	0 190	0 190	0
94	0	34	0	94	0	160	0 160	0 180	0
17	. 0	17	0	17	0	190	0 120	0 190	0

# Districts of Bengal for the Fortnight ending 30th June 1883 .- (Concld.)

								WE	10	LE	O	r a	PR 0 E	RE	IS I	EF	M	AU	ND				1	VE	RA	GE	W	AG	ES	PER	Me	ONT	H			
			8.	A EAS	r.								8	ALT					_		Aoı		LT	IRD URA: RE.		8		E E E		R.58-		CAL	MON RPBN1 LACKS	l'16 fl	OR	
	Prosent return.			Next preceding return.		Corresponding return	of isst year.		D. C.	growing roture.			W	wear preceding return.			Corresponding return	of last year.		Present return	was a second of the district of the second o	Next preceding reform		Corresponding return	of last year.	Present raturn.		Next propeding return	Wines Spread and	Corresponding return of last year.		Present return.	Next preceding return.		Corresponding return of last year,	outrect»,
																																6	Bast	dp10	Distr	iota.—(Concluded
1		Br.	M.	OI	8	. 0	The	R	a.	A.	P.	1	Ro.	A. :	₽.	1	Ra.	A. 2	- 1						-								-		Re. A.	
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6		4	6				0		6	0	0		8	0	0			B (		(0)			0		0				0	7 0			16 (	1		Chittagone Hil
11		0	11	0	1	0	0		8	4	0		8	4	0		8	6 (	0	7	6	7	8	7	8	6	0	6	8	6 B	13	3 0	14 0	1	6 0	Tracts. Hill Tipperab.
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10	)	8	10	8	1 11	0	9	1	8	0	0		8	0	0		8	9	0	(2	8	2	8	2	8	3	0	8	0	8 0		6 0	6 (	,	6 0	Patna.
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11		0	11	8		9 1	0		8 2	10	8		8		8		3					3 1		3 1			0		0	6 0	1		6 10	5	8 0 6 10 to	Chumparun.
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14		0	14	0	11	8	0		9 (	12	0		9	13	0		3	0	0	ō	10	5 1	10	6	10	4	0	14	0	4 (	1	7 E	10	8	7 8 to	Cuttage.
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							F,								1													t			1		Sout	A- A	Postern	NAGPORE,
9		0	9	0	10	0	0	1	8	16	8		8	16	8		8	19 4	0	8	0	4	0	4	4	-	0	5	0	5 (		8 0		0	6 10	Hasareebaga.
9		0	9	0	1	9	U		4	8	0		4	2	0		4	0	0	{8 4	to	4	0	}8	12	{ 8 to	8 0	3 to 5	0	to 5	1:	10	to 12	0	5 10 to	Lobardunga.
8		0	6	0		8	0		6	0	0		4	0	0		4	7	0	8	0	8	0	3	0		8	4 1	6	to to	3 6	to	to	U	5 0	Singbhot to.
10		P	100	-		8	0		9	9	0		9	7	0		2	19	0	A	11	3 1	19	4	11	4	0	4	0	6 0			19		10 0	Manbhoum.
U		0	10	-	1		-						9		*									-							1					

rotail price of sait 13 acors.

of sait at Bhadrak 10 socrs.

of sait at Chutra 10 socrs, and Khurruckdiha 11 socra,

of sait at Kaghunathporo 11 socrs, and Surrabasar 10 socra.

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COLMAN MACAULAY, Secy. to the Govt. of Bengal.

# WHOLESALE PRICES-CURRENT of Food-grams, Firewood, and Salt in

						W	ZE.	43.							Ba	44	12.			١		R	101	, 21	107	80	21.				1	Rio	<b>12</b> ,	COR	416	OE.				noo, E	
Mumber.	MARTS.			Present rotars.			Next preceding return.			Corresponding return	and come of		Present return.			Next preceding return.		One of the last of	of last year.			Present return.		3	Nest preceding return.		Corresponding return			0	resent return.			Nogt preceding return.			of last year.		Present return.	Next preceding return.	Corresponding return of last year.
			R.	Δ.	P.	R	. 4	P.	R		P.	R.	Δ.	P.	R.	۸.	2	R.	٨.	P.	R.	۵.	P.	R.	A.	P.	R.	<b>A.</b> 1	P.	R.	4.	2.	R.	4.1	₽.	B.	٨.	7.	R.A.P.	R.A.P.	H-A-I
1	Calcutta		8	14	0	2	18	0	9	14	0	9	0	0	2	1	0	1	9	0	8	14	0	8 1	14	0	4	0	0	9	8	0	8	8	0	2	0	0	0 0	9 0 0	.,2
2	Serajgunge		1	13	0		***			***		4	0	0		000			64 *		0	4	0					***			••			***			000		440	040	
8	Daoca	***	8	9	0	2	13	0	3	8	0	8	0	0	1	14	0	1	8	0	2	10	0	9	8	O	1 1	19	0	9	2	0	9	2	0	1	6	0	8 0 0	***	000
6	Naraingang	0		000	ĺ		004			184	İ		041			080			no t		8	3	0	2	4	0	1 1	10	0	8	0	0	8	9	0	1	8	O	***	400	***
6	Ohittagong	040	8	0	0	8	0	0	6	2	0		***								8	14	0	9 1	14	0	2		0	2	Q	0	1	12	0	1	8	0	140	000	000
0	Patna		8	8	0	9	3	0	2	6	0	1	8	0	1	8	0	1	2	0	8	11	0	2 1	11	0	8	6	0	8	0	0	2	0	0	1	12	0	104	100	-
7	Balasore	001	2	19	0	8	12	0	2	8	0		004			000			000		8	8	0	2 1	10	0	1	8	0	1	5	0		***		1	6	0	***	004	00-
8	Poores	00+					***			***									0-01-0			601			**					2	9	0	9	8	0	1	9	0	441	***	*
	Onttack		3	0	0	8	4	0	9	10	0		444			684					8	0	0	5) 7	10	0	9	9	0	1 1	0	0	1	9	O	1	6	0	800	***	**

CALCUTTA, The 9th July 1888.

the undermentioned Marts of Bengal for the Fortnight ending 30th June 1883.

	T MILL		HAGI	on Mil on Mi D Chin	AWA	MAIS	dons.		-	GRAM.		Fa	RWWOOD.		SALT.	
Present return.	Next preceding return.	Corresponding roturn of last year.	Present refure.	Next preceding return.	Corresponding return of last year.	Present return.	Next preceding return.	Corresponding return of last year.	Present returb.	Nest preceding return.	Corresponding teturn of last year.	Present return.	Neat preceding return. Corresponding return of last year.	Present return.	Next preceding return. Corresponding return of lest year.	MARTE
R. A. P.	R.A.P.	R. 4. P.	R. A. P.	R.A.P	R.A.P.	k. A.	P. R.A.	R.A. P	R.A.P	R.A.P.	R.A.P.	R. A. P.	R.A.P. R.A.F	R. A.	P. R.A.P. R.A.P	
Z	000	1 80	***	901	***	1 8	01 9	0 1 10	2 4 0	9 4 0	1 18 0	0 6 8	0 6 8 0 6	2 19	0 3 13 0 3 10 0	Calcuten.
000	100	***	001	***	***	98+	***	***	2 10 0	•••	***	0 6 0		8 9	0	igrajgunge
***	•••	000	984	***	***	•••	44+	***	2 4 0	2 12 0	1 13 0	0 5 0	0 6 0 0 6	0 3 4	0 3 2 0 2 15 0	Dacea.
***	401	100	081	***	***	•••			9 6 0	8 10 0	2 4 0	0 7 6	0 7 0 0 7	0 8 0	08 8 0 2 14 0	Naramgua
984	***	***	***	101	***	.40	***	998	8 0 0	8 0 0	2 8 0	0 6 8	0 5 8 0 10	6 4 0	04 0 0 9-14 0	Chittagong
004	000	***	004	***	001	1 8	0 1 3	01 2	1 50	1 5 0	1 4 0	0 6 0	0 600 6	8 0	0 3 0 0 3 9 0	Pates.
989	***	00.0	***	000		000		***	9 19 0	8 12 0	2 <b>6</b> U	0 6 4	0 6 4 0 4	0 6 8	0 6 0 0 3 2 0	Balasore.
	***	001	00+		***	***		***	***	***		bex	•••	3 13	0 3 18 0 8 19 0	Pourse.
000	000	001	9 10	08 0 0	2 10 0	000			9 9 0	9 0 0	1 10 0	0 8 0	0 800-6	9 19	0 2 12 0 3 0 0	Cuttook

Published for general information.

COLMAN MAGAULAY, Secy. to the Govt. of Bengal.

# Meteorological Report of the Province of Bengal

									DANIAC	N OBSE						In .	1 40
				At	u Press	URN.	Win		-		Tu	MPERAT				humidity for week.	DOG!
DISTRIC	T.	Representat	ive	Mess barometer height, 10 a.s.	Mean reduced to sea-level.	Variation from mean.	Prevailing direction.	Mean wand velo- cuty males per day.	Hizhest during week.	Lowest during week.	Mean maximum kemperature.	Mean minimum ter perature of week.	Mean daily tem- persture of week.	Variation from normal mean of week.	Mean 10 A. M. temperature.	Average hus	Average cloud amount
		Gouslpore	***	20.200	29.040	-	8	271	88'6	76-8	8017	78.2	79'6	****	9014	88	8
Puoree	{	False Point	**	20.929	20.408	-097	N.M.	343	80.2	7211	8/3 9	78.8	81.7	-1.3	88'8	80	8
Cuttnek		Cuttack		201833	291614	-007	W	120	9314	7618	8716	7911	88.0	-1.3	83.2	70	0
Balauoro		Balasore		201530	291897	-	NNW	117	69'4	76-8	86*8	77'5	181.8	-	83.8	84	8
South-West Mi	dnapore)			00.00	29'632	016	Variable	271	90'7	7810	88'4	78'1	63.3	-0.0	8518	78	0
South 24-Pergu	2	Saugor Island		29.557	20 64.1	010	A SECTION AS	211	810 1		00 0	,,,,					le.
Midnapore	)	Midnapore	110	29'471	-	-	N.W.	۴	91'5	73.8	87'9	76.6	83.0	-	8.99	80	6
## h	}	Calcutta		20'586	20'007	-014	SE	161	80'8	71.2	87.0	76 8	81.0	-17	84.0	88	9
Hooghly	)																
Burdwan		Burdwan		20.021	29-621	+013	Variable	120	05.0	7814	89'1	79*2	84'2	-0.0	84.8	79	8
Boerbhoom		Rangenoj	144	20.568	_	-	NE	P	01.0	76'3	67'7	77'9	82'8	-	86'8	76	
West Burdwan				1													
		Borhampure		29 578	291641	+025	ENB	155'9	92.7	76'9	88.2	78'4	83.5	-1.7	84.4	63	0
Nuddea																	1
Jessore	)			00.00	desame		N' market had	9.00.00	02:4	MB . 4	88:8	78'0	83.b	~0.4	85.4	82	
Khoolna		Jessore		20/604	20.039	+003	Variable	184'8	0214	7812	98.8	10.0	69.1	-0.0	00.0	9%	0
Chittagong	***	Chittagong		20.296	29.685	+010	SE	144	89'2	75.5	8410	70'8	80.3	-1.7	83.0	80	6
Chittegong Hill		Demagri		(		4	0	bservate	ry not re	corded.							
Backermani		Barrisal		1	1		Observ	entory o	menaed	l, and Ju	dy.						
Markhallm		Nonkholly					Obst	rvatory	not comn	nonced.							
Furreedpore	***	Furroodpore					Observ	ratory o	mmenese	l, 5th Ju	ly.						
Ducos	*** ***	Danca		20.024	201658	+016	SE	117	8918	7612	80 8	:3 18	82.1	-1.0	85'4	80	6
Commillah	844 121	Committah		2211628	59.065	_	SE	9	8516	7-613	8318	75'8	79'8	-	83'8	78	6
Mymensingh		Mymensingh	* ^	50.636	-		ESE	202	92'3	76 0	88.6	77'8	83'2	-	88:0	78	6
Bours and Pub.		Semjgunj	***				Ob	servator	y not com	menocd.							
Rajahahyo	101 001	Rampore Bear	ulonh	29:568	201042	-	W	319	9416	75'8	3 (9	79.2	8514	-	851	8.8	8
Limgepore		Dinagepore	***	20.231	-	-	8 E	168	92 0	77.1	89'5	79'8	84.0	-	8518	78	0
Rungpore	114 801	Rungpore	***	20.018		_	8E	137	92.8	76'8	01.5	781	84'7		86'8	78	8
2 - 4 - 1	)			00411014			p	1.07	COMPAN .	7.0.1	90'3	nero.	04.9		O Direct	Cr.O.	
	}	Julpigoree		291324	(i) tres	_		127	92.0	70.1	80 0	77'8	84:1		8518	78	8
Darjeeling Hill 1	Districts	Darjouling	***	55.034	-	-	B	93	69.1	56.1	69.0	867	01.0	-	63.8	93	- 6
Purneah	)	Purneah		29:518	Max +40.440	+027	Calm	88	96.2	76 8	91'1	78 9	65'1	+04	ua.a	***	
North Bhagulpo	ro 3	rurnemn	***	20 010	39'643	+027	Calli	υp	1	100		(0,0	00.7	700	85.2	78	3
Mosufferpore	}	Durbhunga		29.478	201844	+046	ESE	134	B3'4	78:8	8018	8018	85'1	+0.6	86'1	80	1
Durbhungs	3	Trough milita	***	ed 410	20.099	T 0 80		500			ere/ 17	0.0	1907 1	700		70	12
Chumparun	060 411	Motihari			-	-	LSE	-	94'1	2	67.4	P	7	-	87'8?	70	1
Sarun	***	Chupm		19:403	-	-	E	60	95'5	76'0	91.9	78'5	85'2	-	60.0	98	8
Shahabad	5	Dehreo		20.561	20'632	-	Variable	P	9814	68.0	8910	70'1	79'4	49.45	86'3	73	0
	{	Huxar	44.	281184	-		NW	226	88.0	76'2	94 2	79'2	8317	-	88.9	63	6
Gyn		Gya		20*200	29'613	+016	Variable	103	88.5	71'8	9413	74.0	86'2	-0.9	88'0	68	8
Patna .		Bankipore		291416	29'639	+060	Varuable	162	88 0	78'7	83.8	80.3	80'8	+6'6	849	74	8
South Bhagulpor	٢ ه	Bhagulpore		29*484	19:639	-	Calm	120	94:9	77'0	80'D	70.9	84"3		86.98	76	
Monghyr	5	- rinkm hold	901	400	20 000				ommenes			100	001		90.19	70	
Bonthal Pergunn	uka	Doomka					Child	· m:01) 0	-mmin.1100	our su	uy.						
Hazaribagh .		Hazaribagh	4+4	27-638	29-625	+034	NW	281	89 0	70'7	8517	79'8	70.0	-1.1	80'8	76	1
Lohardugga	٠٠٠ ٠٠٠ ١	Ranches					4 Manuary	FURTON	not com n	henned		-		-			
Manbhoom		Ranchee	*** ]				7000	- story	com a	MOTIFORY.				-	•		
Month bloom		Chybasas						dit	to.						-		

Replanation of Summary.—The normal means of air pressure and temperature are the arithmetical averages or means of the readings during the same The Amendate of the atmosphere is expressed as a percentage, saturated air being represented by 100. A clear sky is denoted by 0 and an overcast sky vations, rainfull," the normal means are the numerical means or averages of the rainfall in that district determined from the returns sent in by the sub-divisional from that district, (i.e.) the total rainfall at the sub-divisional stations in the district sending in returns divided by the number of stations, A rainful.

(a) Observations commenced on the 1st July.

for the week ending 6th July 1883.

					DISTRICT (	mskkv a Tl	ONS.								
it at					RA	INPALL.									
of week	Ot	week.		e lat of mon	th.		e 15th May.		days neek.	days	Representative		DISTRICT.		
Rainfall of week observing stution,	Normal menn for district.	district.	Mean for district.	Normal mean,	Variation.	Moun for district.	Normal mean.	Variation.	trerage number of rainy days during the week.	Normal number of ruling days of week.					T-BOBORO
7:05			1								Gopalpore	. > 1	19		1 2
4.98	2'58	6'03	21:39	11'03	+10186	20'06	12:01	₽9°43	4.2	4.3	False Point	3	Poorse	***	. ]]
5-29	2.79	4'82	15186	11:16	+4'72	19/66	12:96	+6.70	8'5	318	Cuttack		Cuttack		1
8/1	3.53	8:90	19:42	9143	+10'00	80.77	11.81	+ 8198	5.0	4.0	Balmoore		Balasoro		1)
	1	6136	24.02	10:10	+2.05	10.10	24104	. 1.00			10 mm	6		napore	- 1
5-99	2'80	0.00	14 21	12.10	7-2-113	16'47	14'96	+1'63	513	415	Baugor Island	. (	South 24-Pargunn		
5:14	2165	8:67	9.55	12:07	-2.85	9.72	14'50	-4:78	4.7	3.9	Midnapore		Midnapore		
	4								1		\$	r	24- Pergunnalis		11
6163	2.32	8194	13'05	13 98	+7:10	14*09	15.03	- 0:93	5.2	679	Calcutta		Howrah		11
	1			i	•							1	Hooghly		"
1'0'	2:10	1'06	9.52	10.05	1'67	13:62	13.17	+0145	618	318	Burdwan		Burdwan		- 11
												1	Bankoora		11
	2'02	2.39	14:83	12.81	+2.02	17:53	16166	+3,00	416	415	Ranigunj .		Beerbhoom		1.
13										1			West Burdwan	40	
1'91	we'78	1:07	10.22	10.05	1.49	14:79	14:67	+0.22	613	412	Herhumpore	10-	Moorshedahad		
	2:45	1 58	9'51	12.00	- 3'24	12.70	16'00	-3.30	3.0	6 ()			Nuddea		
		0.00										c	Jessore		** !
2121	8.48	2.90	10:98	14198	6103	18182	18:50	-5.57	-\$126	47	Jessine	. {	Khoolua		"
5°35	5'53	4.09	46:44	81/12	+12.32	B4158	39.44	+15108	615	B*43	Chittagong		Chittagong		1
	2:80	1'86	20'31	22.04	-1.73	21:87	26108	- 4:21	313	5.8	Demagri	,,,	Chittagong Hill T		-
	8186	3.16	17199	24.20	-6.51	20172	25160	-7118	5.5	2.5	Barrival	47)	Buckonguni		
	4130	1.72	49116	31'88	+10.38	44189	37:78	+ 7*16	3.5	514	Nonkhally		Noakholly		
	2168	1.16	8148	15'38	6'95	15.25	10.00	-7.62	3.3	418	Furreodpore	,	Ramanadaana		
1110	1	0.98	8148	15'74	-7:28	11174	20:44	-870	4:0	416	Daora		Ducon		
8106		5.10	18:37	20186	-1.00	23:30	25'00	-1'70	4'5	5.0	Committah		Commillah		1
0.1		0.04	9170	19:01	-9191	14'20	84187	-10:07	2.1	416	Mymenningh		Manunuimah		
	2.04	0'74	0'48	14:73	-8 23	34163	18*75	-4.12	210	410	Surniguni		Bogra and Pubna		17
0-95		1'08	9.72	13:54	-4129	13143	18:31	-11.89	3:7	4'2	Rampore Beaule	palı			· · ·
0*3		0144	11'24	16:57	~7:33	14'77	21.01	-6'87	5.0	411	Dinagepore	**1	1 Hermannes		000
0.0		.0'71	14'07	24'90	-10.53	17:06	82*00	15'03	1.3	87	Rungpore		41		
		1				**						(	Jelesmon		
110	8 4'81	0.05	25168	86.56	10.22	32'03	46 96	18:93	1.8	4'7	Julpigores .	}	Cooch Behar		
419	1019			45*61			84140			0.0	Darjeeling	***	Darjeoing Hill D		
												6	Purneah		9
. 4		1.08	24-61	14'34	+10'27	25.82	10:64	+9118	218	4:1	Purnesh	{	North Bhaguiper		***
-												(	Mozufferpore		
0.3	2:81	1.08	16:17	9*89	+6'35	18'01	11 00	+7.01	2.2	3.3	Durbhunga	ž	Durbhunga		*** ;
4.4	2 2:36	8:66	8*42	10:98	-2 51	10.03	13.02	-2.03	3.0	3.3	Motimari	***	01		
8'8	-	mate a	12:47	8182	+3:08	12:40	0-79	+3.88	30	816			al		***
314				0.00	4.9.00	12.00	0.12	73 00	00	0.0		]		••	-
1	1	1:78	กาเก	Princip	. +1.83	9.61	7.79	+1'82	2.3	2.0		3	Shuhahad .		
1 10			18:07	7.27		13'79	9:23	+4'57	3.8	3 8			Gya .		
8'0	1	1 2463	18.08	7.96	+5.11	16:14		+6'17	3:3	1.3		***	Patna		***
0.2	8/1/8		20 00	6107	+9101	16.10	9.97	76-17	93				South Bhagulpor	10	"
0.5	2188	0.48	11.60	9:26	+8.34	12'40	10:34	+1.85	1.6	4.8	Bhagulpore ,	{	Monghyr		801
		1.58	12:43	22/100	4.60.84	34 98	38100	+0.75	3.7	418	Nya Doomka '	,	Southal Pergunn	a lea	,
	2196	8.60		11'98	+0'51	14 97	15168			4.9	Hazaribagh		TI-multi-mul		01
4140	2.84	0.00	10.52	10.88	-0'87	10.03	12188	1.40	6.0	-	Transcription of the last		Lechundren		***
	9145	4'40	14'96	9199	+ 5'07	16'54	11'88	+018	8.3	417	Hanchee	{	Mambhaann		
1		6186	3316n	15'94	-2 36	12.71	16'19	-3168	6.0	419	Chyebanan	-	Singhuboom		

period for the past 13 years. The variations are acquires when the mean for the week is less than the corresponding normal mean and positive when greater, by 10. The number denet up cloud amount represents the part of the sky covered, the whole sky burns deneted by 10. Under the head "district obsersional stations for the period in question during the past 2 years. The "means for the district" are the numerical averages of the rainfall returns received day is one on which at least an hundred the armon fel".

# Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 6th of July 1883.

					It	AINFALL	i a			211	inl.				
Meteorological division.	District.	Station.	y. souh	38.5	F. 2nd	s. and	lay, sth	lay, 5th	. 64h	days.	) o H	Total rain- fail from 1st June to 6th July.	total rain- full from 1st June to 6th July,	full same	Average rainfall from 150 May to date,
11-	-		Sarenday, June,	Andag.	Venday.	Tuesday.	Wednes July,	Thursday,	Friday.	Number rating days.	Rainfall week.				
MISSA	Pouroe	Poores Khurdah Banpur False Point	2195 1199 3.88 1190	0.00		0°98 0°20	0.23	4 28 4 14 1 90 0 89	1088 0170 2120 3136	4 6 4 5	7:64 6:92 8:18 5:49	217 183 2 8 2 8 1 - 668 23 3-66	9/40 11/31 11/10 12/10	24°24 24°34 24°34	10:30 10:01 12:04 14:23
	Cuttack	Jagatsingpore Cuttack Kendrapara	97280 3721 3736 3714			*****	0100	3108 071 0 00 1150	0:10 1:12 1:04 1:85	5 5	4°33 5°44 2°80 0°60	25184 15.77 10:58	874 12 25 10 32 13 20	30-21 15-12 20-71	13:07 12:03 13:07
	Balosore	Chandbali Bhaddruck Sorat Balasare Je lasare Barapotah	5/50 8/85 2/60 5/64 0/15 2/66	0°20 0°12 } 0°17	0.30	0.20 0.1- 0.5- 0.10	0130 0130 0130 0130 0130 0 5	2°20 1°30 0°00 0°4 0°30 0°30	0°39 0°39 0°38	4 6 7	6160 6164 5189 7170	22 03 19 74 17 78 10 76	8129 1 1142 7147 18129 8175 1 1169	30108 2 - 3 - 10 72 23143	10 d 11 m 10 s 10 s 10 s
CUTH-WEST BENGAL.	Midnapore	Contai Saug r Island Tumbok Mutaapore Ghatral	0.742 0.736 0.80 1.784 1.721	0.00	0.39	2*R0 1*08 0*90 0*80	0 11 3 53 0 65 0 24 0 22	0.68 0.18 0.20 0.03 0.26	1'01 0'80 0'97	6 3 6	5.76 5.44 2.30 3.16 2.56	15/01 17/22 9/00 9/15 9/50	18:05 1::10 10:53 11:75 13:83	19:04 18:64 9:00 0:56 9:73	2 4 197 2 5 100 1 3 1 10 1 3 100 1 9 1 8 7
	24 Pergunnah»	Diamond Hur- bour. Alipora Jail Instruck pore Dum-Pham Barazet	0/89 0/85 0/50 0/80 0/05	0.10	*****	0°81 1°10 0°60	0:78 2:56 0:00 4:25 1:65	1155 0169 0119 0163 0 52	0.74 0.16 0.16 0.16 0.16	6 5 6	4'19 3'21 8'57 4'50 5 56	979 12.88 12.80 11.77 13.10 17.82	12'43 12'58 12 12 11 49 11 21	10%3 18:24 13:94 12:50 17:39 10:52	15°14 15°46 15°46 14°82
	Howrah	Howrah	0.055 0.20	0.11	0.00	6°33	1'77	0.48	0°17 0°22 0°23	ő 7	S183 3184	11792	15.52	12 50	16'61 16'86 16'59
	Hooghly	Serampore Houghly Johanabad	4076 \$ 1 4077 I : 107863	0.02	0.12	0°47 0°83 0°69	0198 0182	6.527	0°14 0°27 0°38	7 6 6	2:79 2:01 2:43	12 91 10 00 11 42	11:72 10:14 12:27	13'67 13'24 12'42	18109 18146 15146
84	Burdwan	Culin Burdwan Culiwa Rancegungo	0153 0176 0165 0120	0.80	0103	0°33 0°01 0°25 2°20	0.30 0.30 0.30	0.02	0.32	5 5 3 4	1154 0 95 0 64 3 00	0°31 12°27 6 19 21°58	10°75 10°66 11°55 9°05	12'07 15 23 12 75 25 48	12'81 18'26 18'44 10'53
	Hankoom	Bankoora Bishenpere Mahara Khatra	0:50 0:71	(915/6)	6163 6766 01a1	118 1147 0100	0.15	0.10	0111 132 011 010	6 8 4 5	3 11 2 97 1 85 1 99	0185 39167 13163 10 50	12:13 14:47 13:54 18:75	1079 1601 1510 1233	14/38 16/4- 18/6 25/31
	Heerbhoom	Bh. Soory Hetam, ore	0.51	0.10	0.25	0.20	*****	Pat	0109) U109	ő 5	2:01	21'61 5'00	12 07	23166 12164	38170 10 te
	Nudden	Bonsong Raunghat Kishnaghur Chiomitanga Meherpore Koositea	0140 0135 0 19 0 22 0 64	0.250		1.36	1'20 0'50 0'26 1'72 0 81	0.55 0.05 0°50	0.05 0.20	3 1 3 2	2 15 2 7 8 0 28 0 89 1 94 1 1 63	10 90 13 10 3 80 4 90 9 7 4 13 11	18 45 11 36 11 67 12 86 12 46 14 23	13:08 15:30 6:46 6:19 24:76 26:82	14:50 14:57 18:63 19:71 15:12 16:13
4	Khoolna	Satkers Bagirhat	(71%) 7 (716%) (716%)	0.12	0.00	0.50	8185 0 13 1105	0.70 1.50 0.70	0*11 /	6	0107	16.15	1 1/75 17/56 14/67	30.88	25 60 21 6 18 0
-	desore	Naraii Janure Jhennish Magooraii	0.16 0.70 0.70	6,03	0.04	0.02	0°11 0°15 0°80 0°99	0.17	002 012	3 7 4	0.48 1.63 2.23 2.10	0.04 816 7105 12106	13:79 15:26 15:74 13:27	. 12°27 15°63 11 85 14°83	17:2 19:2 15:0 17:2
	Mooralsedabad	Randi Rampore Haus Berhampore Lalingh Azuncungo Jungipore Lalgota	0.19 0.19 0.19	6 20 6 0 2 6 47  0 0 3 0 10 0 0 3	0.01	0.60 0.13 0.01 1.85 0.17	0140 0135 0170 9125 0105 0 22	0.04	0138 p 0104 p	8 4 0 2 0 4 5	1'20 0'00 1'14 0 97 0'58 2'12 0'56	10°80 10°21 9 51 8 47 9 09 11°28 8 55	12:55 12:61 42:70 11:10 13:03 11:23 11:67	14'63 17'50 15'06 12'45 15'00 16'67 12'77	14°5 10°5 15°6 18°5 18°5 18°6
ANT BENGAL	Chittagong	Cox's Basar Chittagong	4*211 0165	0150 0.40	0.01	0.12	1.23	0.13	0.08	7 6	6:69	51 189 55 52	41.43 26.70	53108 47171	51.7
	Chattagong Hill Tructs.	Ramamati	0.16 01.42 0138	0.08	1'40	0.12	6112	u lu	0.12	5 4 8	1:71 0:117 2:70	20°21 21°4 17°30	22141 21 65 16101	23°04 29°33 31°24	27°20 24 (4) 20°01
	Backergunge	Patunkhally   Perceptors Burrisal Bhois	1'M5 1'99 2'95 1'07	0°0% 0 10 0°06	1*00 0*09	0.07	0 30 0 20 0 18	0000 1018 0043	0100 0100 0104	8 8	3 40 3 94 8 46	20150 17 13 13:60	27/90 20/35 19/55 28/59	23 00 1570 1821	28 0 28 0 24 2 38 1
	Noakholly	Noskholly Fenny	0122	0115	, () 41 100	1.08 0.85	0.07	0.25		5 %	2:40 1:05	47,27 84,42	31:57 82:19	49°57 43°58	87°10 88°80
PLE	Purreedpore	Mudnripore Purreedpore Goslundo	1.16 0.91 0.10	0109 0.29		***	11.53 d	(1 12 ] (1 2 2 ) (1 2 2 )		8 6 3	1150 1111 0785	8 34 67 5 1 10 G2	15/50 25/79 14/78	12'50 10'70 13'78	14 6 20.2 20.2
BOT-	Duces	Munshigungo Dacon Manakgunge	0'10 0'27	0109 0102 010		0.00	0.09 0.75 0.15	0°11 0°07 0°10		4	0.05	8 41 4188	19/50 15/73 12/05	11 00 9:29	2616 20 7 1612
	Comille	Com lia Chandpore Brahmunberia	0.05	0107		2191 0195 0176	0.12	0004 0005 0005	0.19	4 5	2:34 2:15 1:37	23:07 10:70 9:03	20130 25170 17140	25:72 20:65 18:27	25:0 20:1 22:5
	Mymonsingh		0.10	0.18	0.00	0.04	######################################	0.70	,07.481 	1 1 4	0'22 0'06 0'47	\$77(A) \$7.76) \$5.759	82°26 16 83 21°33 37°37	15/70 16/00 11/83	27°4 20 0 25 4 31 1

t xperiation indicates that no rain has follow. If the return for any day has not been received, the corresponding space is left blank. If some of the returnsary wanting, the corresponding apaces in the total rainfall columns are left blank.

# Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 6th of July 1883—concluded.

					1	LAINPALI	L.			To	TAL.				
Meteorological division.	District.	Station.	Saturday, 30th	Su day, 1st July.	Monday, 2nd	Tuesday, 3rd	Wednesday,	Thursday, 5th	Friday, 6th	Number of ramy days.	Rainfall of	Total rainfail from 1st 10 6th July.	Average total rain- full from lat to 6th July,	Total rain- fall succe lith May.	Averages varefull from 15th Max to dute.
North Brigal	Pubna	Puhna Serajgunga	0°51 60 B	0.12	*****	****	0197 0125		•••••	3 2	1:80	10164	14°19 13°02	10.42	15 08
	Bogra	Shorporo Nowkhilla Bogra Panchbibi	0,00	0.04	*****	1188	0131 1155 0141	0.04	******	1 4 1	#878 0187 0187 0187 1440	7100 61-9 8-99 19-06	14'47 15' 2 17'37 14'09	9175 9131 1116 3261	20° 3 3° 4 22°05 15°17
T.	Rajahahye	Besuleah Natiore	0180 0160	0.00	*****	*****	0.4b	0.50	0.12	8 11	1105 1170	7186 6183	12:71	10°56 10°55	35000 17.5%
,	Maidah	Maldah	0108	0.05	******	0.03	8017 4	178448		3	0.13	1/73	11175	12'01	15:70
	Dinagepure	Mohadebpore Churamon Raigunge Dinagepore	0.13	******	*****		0.35	0.50 0.15	6'04 6'02	2 2 2	1°04 0°33 0°16 0°24	7°26 11°58 12°64 13°15	20147 15172 18150 20145	10:01 18:92 14:34 16:21	88 77 10 % 22 60 28 27
7	Rungpore	Bhawanigungo Rungoo e Kurigram Bagdogra	0'14	•:::::	0.80	******	1150 0104 0105	*****	******	23 1 1	1%4 0:04 6:95 Nil	37*79; 16732 16769; 37789	18120 2317 6 25133 32125	23 35 17 27 23 67 23 14	22 (4) 33 - 20 333 - 6 41 - 8
-	Julpigoreo	Julpigoreo	*****			*****	0.38	1166	0.07	3	1'80	88174	33.97	43:13	garning.
	Cooch Behar	Dinhatta Cooch Behar. Mickligungo Mutabhanga	*****	0.01	*****	******	0°36 0°05		0.08	3 1 -	0140 - 0105 Nat 0173	15'97 25 5 8 26' 26 35' 96	34/32 41/94 30/40 37/63	24'09 35'13 31'75 44'31	#5199 \$61.4 \$6103 #5164
- 14 .	Darjeeling Hill.	Buzn Darjeeling	0.48	0.45	0.25	0134	0.05	1166 0172					80'7i1 30'86		7 61949
NORTH BEHAR	Purnesh	Kissengunge . Armresh Purnesh	*****	*****		0'10	*****	8'50 0'60 1'58	0.03 0.25 0.01	2 2	3163 0192 1169	26126 20174 11160	10'67 16'64 15'01	15.81 20.10 54.31	20163 19127 16188
	North Blingul- pore.	Maddapore	0'08	0.0%		0.00	*Bu ***	1:44	0.02 0.01	4 8	2 1%	81169 28182	P 91 1 : 2d	80139 24 97	11155 12170
	Durbhungs	Tajpore Duchhunga Madhubani	*****			6.5949	0.86	0°32 1°03	0.10	3 1 3	0 51 0 312 1 71	15100 11002 1601	10149 10145	15'61 20'00 17'78	10'+8 11'+5 12'10
	Mozufferpore	Sitamarhi Mozuffe pore Hajipore	0.02	******		0.03	0.70	0.15	0.79	3 3	2:01 0:87 0:5.	fess 10721 16724	10*38 10*34 18*78	10:05 21:00 10:31	117W 1075 U
14	Ohumparun	Motibari Bettiah tsopalgunge Sewan Chuprah		*****	******	0.05 0.05 0.04 0.05	0'.0	2142 2105 0155 0150 1135	0.88 2.50 0.45 1.57 2.30	3 4 2 3	4180 6127 0190 1 50 3197	9:18; 10:01 5:30 10:08 15:54	11:37 11:40 10:03 7:61	11:71 11:24 7 11 9:33 15:54	11:17
бости Винак	Shahabad	Buxar Dehree Bhuboosh Sasseram Arrah	0108 0710 0180 0128	•••••			0°06 1°32 0°67	0°20 1°00 0°60 0°69	1°27 -1°30 0°30 0°02	4 2 4	1.66 3.71 0.00 1.01	8120 8120	6'61 7'68 7'12	9°41 3°90 10 13	7103 8107 7,63
	Gya	Aurungabad Gya Nowadah Jehanabad	0.03	G*.40	0.40	0°03 0°14 0°61	0.00	0°82 1°80 1°15 1°60	0.80	3 5	9:04 2:04 2:52 2:10	12:29 11:49 16:57 10:59 13:42	7102 5113 5180 6191	18'04 18'46 11'26 18'46	8'53 9'38 10 17
	Patna	fwim the apero Behar	0.08	******	0.18	0.10	0.04	0.22	0°17 0°20 0°64 1°83	4 8 8 8	0182 1130 2156 1135	15.29 12.35 28.41 15.74	9:23 8:53 6:43 8:15	16.74 12.40 28.61 18.79	\$1000 \$1000 \$17.0 \$1000 \$1000
-	Monghyr	Begonerai Monshyr Janua	*****	10000	*****	0.03	0.08	0.18	1.14	2 1	1:30 0:11 0:32	20195 8193 7.93	8143 9133 9119	25.00 10.35 7.17	9703
1	South Bhagul-	Bhagulporo Banka	*** ***	. 6 .	*****	0.12	0°11 1°65		*****	1 3	0°11 1°78	14'66 7'85	8178 10143	12.23	10 45 10 25 11 00
	Southal Porguinals,	Rajmehal Gorda Pake ir Nya Doomka Deeghur Jamuara	0'65 0'25 0'25 0'69 0'53	0'46 0'07 0'33	0.11	0°47 0°57 0°54 0°14 0°09	0.16	0.08	Unna trita	3 2 7 5 5 5	Nil 203 0:77 1:70 1:87 1:8.	7 1601 7 100 17 160 13 166 13 166 12 107	15580 16500 16500 11500 1156 10784	8:00 8:25 21:35 16:41 15:33 13:30	15/78 10/28 10/78 10/8 10/8
CHUTTA NAG-	Hazaribagh	Pachamba Hearingh Semingurh Mahudi Hills	0.19 0.49 0.43 0.43	0.18	0169	3.70 3.10 0.04	0105 0104 0163 0163	1.91 1.10 0.77	0°30 0°30 0°31	8 7 4	1'01 5'04 2'37	8 95 11:61	10'80 12'51 12'71 9'72	13:13 B::13	1201 1201 11 10 11 15
	Lohurdugga	Ranchi Palamow	118	0188	*****	2'04	2°11 0'00	1.30	3.00 0.32	8	6.32 2.10	2 to 182	10°18 8′50	20 38 8 60	11 de
1	Singbhoom  Manbhoom	Chyebassa	2190	0.33	0108	0°12 8'40	1:90	0,42	0.00	7	6162	11100	10143	32·71	1271
		Gobindpore	0.84	0.49	400000	0.00	0.84	0.52	*****	8	1'54	N'58	10 78	10 08	11 10

Exploration—indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the returns are left blank.

# SUMMARY OF METEGROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, 6th JULY 1883.

At the commencement of the past week a cyclonic vortex, which had been forming for several days previously near the Sandheads, began to move to the westward. It crossed the Balasore coast a little before midnight of Friday, and advanced across the North Orissa Hills into the Central Provinces on Saturday morning, whence it drifted slowly across the head of the Peninsula to Guzerat, and finally disappeared near the coast of the Arabian Sea. Strong southerly winds blew across the Bengal coast on Saturday. They diminished in strength on Sunday, and were feeble on Monday. Temperature hence increased over the whole of the Province, and winds became light and variable in North Bengal and over nearly the whole of Behar.

In consequence of the weakness of the Bay of Bengal monsoon winds on Monday, westerly dry winds from the North-Western Provinces advanced downs the Gangetic valley on that day, and were established for a short time on Tuesday over Chutia Nagpur and South Behar. Another cyclonic vortex began to form at the same time near the head of the Bay. Its existence was first indicated on Tuesday morning by the setting in of northerly winds at Saugor Island and Balasore. This cyclonic vortex turned out to be very much smaller and feebler than the vortex of the preceding week. It formed near the coast of the Sunderbuns, probably south of the Mu'lah and near the Sandheads. It was stationary on Tuesday and Wednesday, and began to move slowly westwards on Thursday evening towards the Balasore coast, which it crossed on Saturday evening. Hence in every respect, except intensity, it was almost identical in its features and motion with the storm of the previous week. It gave moderately heavy rain to Orissa and the southern districts of South West Bengal, and moderate rain to the southern districts of East Bengal. The indraught to this and the previous cyclonic vortex from North Bengal has been attended with diminished rainfall over the whole of Central Bengal. The rainfall in Nuddea, Furreedpore, Dacea, Mymensingh, Pubna, Bogra, Maidah, Rajshahye, and Rungpore has hence been unusually small in amount during the past week. Behar and Chutia Nagpur continue to receive satisfactory rain.

The variations from the normal of the elements of meteorological observation have as usual during periods of cyclonic disturbance been considerable and irregular. The mean pressure for the week is slightly below the average for stations in Orissa and the adjacent districts of South-West Bengal and above it elsewhere excepting Chittagong. The mean temperature of the week was below the average, except in South Behar. The average deficiency slightly exceeded 1° in Orissa. Bengal and Chutia Nagpur. The excess in the case of South Behar was mainly due to the high temperature which prevailed for a short time on Monday and Tuesday when dry westerly winds were blowing. High maximum temperatures were recorded at that time, the highest being 99.2° at Gya and 98.9° at Buxar. South-easterly winds have prevailed during the week in East Bengal, North Bengal and Behar. Winds have been variable in South-West Bengal, North Orissa, and Chutia Nagpur over which northerly winds of indraught to the cyclonic vortex continued from Tuesday until Friday morning.

until Friday morning.

The following table gives a summary of the temperature and rainfall data of the past week for each of the seven meteorological divisions of the Province:—

			Tuncom	RATUR	K.					10	AINPA	Lile.				
	week.	week.	Avera	ige fur	Week.	ove (+) un week.		Of want	lt.	B	niny di	ays.	Since of mo		Nince Maj	
METEOROLOGICAL DISTRICT.	Highest observed during week.	Lowest observed during	Of highest of each day.	of lawest of each day.	Of mean for each day.	Average mean of wer's above or below (-) normal mean	Average.	Normal average.	Variation.	Arrests number for	Normal average num- her for week.	Variation from week.	Average.	Normal average.	Avenge.	Normal average.
Ortana Bourti-West Benual Enat Benual North Benual North Beliar South Schur Churia Nagjur	95'4 92'7 92'8 94'0 90'2 96'2 90'0	72·1 71·2 74·8 75·5 68·0 74·0 70·7	85 2 85 2 85 7 90 6 92 2 90 1 86 7	77.7 77.9 77.0 76.5 76.5 79.6 72.2	81.8 83.1 81.4 84.0 81.3 85.1 70.0	-i/3 - i/3 - i/3 - 1/7 - i/3 - i/3 - i/3 - i/3 - i/3 - i/3 - i/3	5:86 2:57 1:58 0:78 1:94 1:50 4:15	2:47 2:43 3:18 3:40 2:81 2:81 2:62	+ 2/68 + 0/14 - 1/50 - 2/70 - 0/05 - 1/01 + 1/63	6'7 -5'6 -6'1 2'0 2'8 8'1 5'8	410 414 511 413 316 410 4 8	+0°7 +0°8 -1°0 -2°0 -0°8 -0°1 +0°0	19°24 18°16 16°74 16°11 18°64 11°17 11°83		16°29 90°62 21 30	12'88 18'18 27'8 20'41 10'68 12'66 13'68

The returns show that rain was very unequally distributed over the Province during the week. Orissa, the Midnapore, 24-Pergunnahs, Howrah, Hooghly, Jessore, and Khoolna districts of South-West Bengal, and Chutia Nagpur received abundant rain. It was deficient in every other part of the Province, excepting the Chumparun and Sarun districts of North Behar. The deficiency was most marked in North Bengal, where an average of only 22 per

cent. of the normal rainfall was received. The following table shows the districts in which the deficiency was largest:—

Distri		Average rainfull of week.	Normal average of week.	Deficiency.	Ratio of actual to average rainfall.
Dacca		 0.89	2.56	1.67	34 per cen
Mymensing		 0.61	3.03	2.39	21
Bogra and Pubna		 0.74	2 64	1.90	28 ,,
Rajsbahye	* *	 1.03	3.11	2.08	36 ,,
Dinagepore		 0.44	3.26	2.82	14 ,,
Julpigori		 0 62	4.21	8.59	15 ,,
Rungpore		 0.71	3.74	3.03	19 ,,

Saturday, 30th June.—Pressure had risen generally. The rise was very large in South-West Bengal, and more especially at Saugor Island. It had fallen only at Cuttack, Gya, and Hazaribagh, the fall being largest at the former station. These changes accompanied the westward motion of the cyclonic vortex which crossed the Balasore coast late in the evening of the 29th, and was at 10 a.m. of the 30th advancing across the North Orissa hills into the Central Previnces. The variations of the pressure from the normal were considerable, ranging from +'07 at Dacca to -'23" at Cuttack. Temperature was below the average over the whole province. The mean temperature of the past 24 hours was 7° in defect in East Bengal, 5° in Orissa, 4° in South-West Bengal, 1° in Behar, and 5° at Hazaribagh. Unusually strong winds were blowing at the head of the Bay and in South Bengal. Southerly winds were now established over the whole of South Bengal. Easterly winds continued in North Bengal and Behar. The cyclonic circulation in Orissa and the adjacent districts of Chutia Nagpur and South-West Bengal was indicated by the prevalence of southerly winds at False Point, south-easterly winds at Calcutta, easterly at Burdwan, north-easterly at Hazaribagh, and westerly at Cuttack. The air was very moist and skinic disturbance gave general rain to East and South-West Bengal, Orissa, and 'hutia Nagpur. The cyclonic disturbance gave general rain to East and South-West Bengal, Orissa, and Chutia Nagpur. The indraught to it continued to diminish very considerably the rainfall in North Bengal and Behar, where a few light local showers of no importance fell during the past 24 hours. The rainfall, due to the cyclone, was excessive in Orissa and the adjacent districts of South-West Bengal. Balasore received 5:64 inches, and Cox's Bazar 4:29 inches.

Sunday, let July.—Pressure increased briskly over the whole province during the past day. The rise of the barometer was greatest at Cuttack. The depression had moved westward into the Central Provinces, and the centre at 10 a.m. was near Seoni. Pressure was above the normal of the day by amounts ranging from '01" at Cuttack to '1" at Durbhanga. Temperature was increasing with the diminution of cloud. The mean temperature of the past 24 hours was 3½° below the average in Orissa, South-West and East Bengal. Moderately strong monsoon winds were blowing this morning across the Bengal coast. The direction of the air motion was determined by the cyclonic vortex in the northern districts of the Central Provinces. Winds were south-easterly in East and South-West Bengal, and easterly in North Bengal, Behar, and Chutia Nagpur. The indraught to the vortex in the Central Provinces diminished considerably the amount of moisture in the air over Bengal. The sky was overcast at two stations in Behar, and was partially clouded over the remainder of the province. Light local showers of little importance fell in Orissa, South-West Bengal, East Bengal, and Chutia Nagpur. Little or no rain occurred in North Bengal or Behar.

Bengal, and Chutia Nagpur. Little or no rain occurred in North Bengal or Behar.

Monday, 2nd July.—The barometer had risen in Orissa, Chutia Nagpur and South Behar during the previous 24 hours. It fell in other districts. The changes were nowhere large. Pressure was above the normal of the day at all stations, by amounts ranging from '03" at Saugor Island, to '08" at Cuttack and Durbhanga. Temperature was increasing, and was above the average, except in East Bengal. The mean temperature of the past 24 hours differed very sightly from the normal for the day except in South Bengal, where it was 2½° in excess. Light southerly winds were blowing at the head of the Bay today. Winds were light and variable in North Bengal. Strongish winds between south and east continued in South Behar and Chutia Nagpur. The air was generally drier, especially in Orissa, South Behar, and Chutia Nagpur. Skies were much less clouded in Bengal, and were overcast in Chutia Nagpur and the Gya district, and over the Darjeeling hills. A few light showers of no importance occurred in Orissa, South-West Bengal, and South-East Bengal. No rain fell over nearly the whole of Northern Bengal, Behar, and Chutia Nagpur.

Tuesday, 3rd July.—Pressure had increased generally by small amounts, and was above the normal, by amounts which ranged from '03" at Chittagong to 14" at Hazaribagh. Temperature increased rapidly with the continuation of the partial break in the rains. The mean of the past 24 hours was 4° above the average in Northern and Central Behar, 2½° in Orissa, and 1° in South-West Bengal and Chutia Nagpur. Winds were light and irregular. Westerly winds had extended during the previous 24 hours from the North-West Provinces into South Behar and Chutia Nagpur. In the north-west angle of the

Bay, the winds had shifted round to north-west, indicating the commencement of a cyclonic whirl at the head of the Bay. Winds varying in direction between south and east, prevailed in East and North Bengal, and North Behar. The westerly winds in South Behar and Chutia Nagpur caused a considerable decrease in the humidity. Skies were overcast at a few stations in Orissa and South-West Bengal. Elsewhere they are clear or lightly clouded Fairly general rain was received in South-West Bengal and in Chutia Nagpur. Purulia registered 3.4 inches and Contai 2.89 inches. Local showers fell in East Bengal and the

Chumparun, Patna, and Gya districts. Elsewhere little or no rain fell.

Wednesday, 4th July.—The barometer had fallen at the great majority of stations, rather rapidly in East Bengal, and more slowly in other districts. Pressure was below the normal at Chittagong, and above it at all other stations. The most important feature was the establishment of an area of slight barometric depression in the Sunderbuns and the adjacent part of the head of the Bay to the south of Jessore. Temperature was normal in South-West Bengal, Chutia Nagpur, and the southern districts of South Behar, and above it in other districts. The mean temperature of the past 24 hours was 1° above the normal in East Bengal, and from 2½° to 4½° above it in North and Central Behar. Winds were mainly dependent on the barometric depression in South Bengal. In Eastern Bengal they were south-easterly or easterly. In Orissa, Chutia Nagpur, and at the more western stations in South-West Bengal, they ranged in direction between north-north-west and west-north-west. Winds were variable and light in North Bengal and North Behar. The air was considerably damper in South Behar and Chutia Nagpur. The sky had clouded over again in Orissa and South-West Bengal, and was also thickly clouded or overcast in South Behar and Chutia Nagpur. It was nearly free from cloud in the western districts of North Behar. Rain fell in every division during the past 24 hours. General and moderately heavy rain was received in South-West Bengal and Chutia Nagpur. rain showers were lighter in East and North Bengal and in South Behar, and the rainfall more local in character. Dum-Dum received 4.25 inches during the 24 hours preceding 6 r.m., Satkhira 8.85 inches, Saugor Island 3.82 inches, and Busseerhat 3.29 inches.

6 r.w., Satkhira 8'85 inches, Saugor Island 3 82 inches, and Busseerhat 3'29 inches.

Thursday, 5th July.—Pressure gave way rapidly over the province during the preceding 24 hours. The fall of the barometer averaged a tenth of an inch and was greatest at Balasore ('15") and at Saugor Island ('13"). Pressure was now below the normal by amounts which ranged from '002" at Hazaribagh to '02" at Chittagong and Calcutta. The depression was more clearly marked. The centre of the cyclonic circulation on the 5th was near the coast of the Soonderbuns south of Jessore, and in nearly the same position 5th was near the coast of the Soonderbuns south of Jessore, and in nearly the same position as on the 4th. Temperature had decreased and was below the average, except at Dacca. The mean temperature of the past 24 hours was from \$\frac{1}{2}\$ below the normal, except at Calcutta, where the deficiency was \$\frac{1}{2}\$. Winds indicated cyclonic circulation about a centre near the west of South Bengal. They were south-easterly in East Bengal, easterly in North Bengal, north-easterly to northerly in North Behar, north-westerly in South Behar and Chutia Nagpur, and south-westerly at False Point and Gopalpore. Winds were stronger in Bengal and Chutia Nagpur, but were very feeble in Behar, where calms were registered at several stations. Humidity had increased considerably in Orissa, North and Central Behar and North Bengal. The sky was overcast in Orissa, South-West Bengal, East Bengal, Behar and Chutia Nagpur, and thickly clouded in North Bengal, general rain fell in Orissa, South-West Bengal (except the Burdwan and Moorshedabad districts), East Bengal, Behar and Chutia Nagpur. The rainfall was heavy in Orissa, more especially the Pooree district. Pooree received 4.28 inches and Khordah 4.14 inches. It was light to moderate in South-West Bengal and East Bengal, and no heavy rainfalls were received. The rainfall in Behar was very general, and was well distributed, the majority of the amounts registered varying between one and two inches. The day was almost rainless in North Bengal. almost rainless in North Bengal.

Friday, 6th July .- Pressure had decreased at the great majority of stations. Friday, 6th July.—Pressure had decreased at the great majority of stations. The fall of the barometer was small, except in Orissa and the adjacent districts of the south-west Provinces. This fall brought into greater prominence the barometric depression at the head of the Bay. The centre was moving slowly westwards parallel to the west of the Soonderbuns towards the Orissa Coast. Pressure was below the average by amounts which ranged from '02" at Patna to '15" at Saugor Island. Temperature was below the average, except at Burdwan and Daces. The mean temperature of the past 24 hours was 4½° below the normal in Orissa, and 2½° in Behar and Chutia Nagpur. Winds were generally stronger than they were on the 5th, more especially at the head of the Bay. They continued to indicate cyclonic circulation of moderate intensity. The air was unusually dry in East Bengal. It was very damp in Chutia Nagpur, South Behar, and Orissa. The sky was overcast in Orissa, Chutia Nagpur and South Behar. The cloud amount in North Bengal was small. Rain had fallen over nearly the same areas as during the previous 24 hours. Moderately heavy rain was falling in Orissa. False Point recorded the largest 24 hours. Moderately heavy rain was fulling in Orissa. False Point recorded the largest amount—3.36 inches. General rain was again received in Behar and Chutia Nagpur. Bettiah received 2.5 inches and Chupra 2.3 inches. Showers fell at the great majority of the sub-divisional stations in South-West Bengal. The rainfall was unusually light in North and East Bengal, but more especially in the former.

JOHN ELIOT, Meteorological Reporter to the Govt. of Bengal.

METEOROLOGICAL OFFICE, BENGAL, The 10th July 1883.

## MORTUARY STATISTICS OF THE DISTRICTS IN BENGAL FOR THE MONTH OF MAY 1883.

The subjoined table discloses that, during the abovementioned month, 88,391 persons died among a population of 64,553,682 living in the area under registration in Bengal, excluding the district of Lohardugga, from which no return was received up to date. These figures yield a death-rate of 16:32 per 1,000, against 17:76 per 1,000 in the preceding month, and 20:88 per 1,000 in the corresponding month of 1882. Males died at the rate of 18:36 per 1,000, and females at 14:52 per 1,000, and the proportion per cent. of male to female deaths was 124. The corresponding sexual returns of the preceding month were—male deaths 20:16 per 1,000; female deaths 15:48 per 1,000; ratio per cent. of male to female deaths 127 female deaths 127.

The several death-causes presented the mortality shown below :-

				Ratio p	er millo.
				In May.	In April.
Cholera		 ** ** *	***	2:40	2.04
Small-pox		 	# # A	.24	.24
Fever		 		10.68	12.36
Bowol-complaints	0 0 4	 		.72	.72
Injury		 	0.0.1	.30	·24
Other causes	0 0 0	 		1.80	2.03

indicating that, in comparison with the preceding month, the mortality from cholera had increased to a small extent, and that from fever had abated sensibly, while the fatality from small-pox and bowel-complaints maintained the same ratios.

The incidence of small-pox, fever, and bowel-complaints was, on the whole, normal in every district, except with regard to fever in Burdwan and Nuddea, where this disease prevailed rather severely. Cholera, however, proved conspicuously fatal in the undermentioned districts. It is noticeable that in the districts of Bankura, Birbhum, Hughli, Jessore, Rajshahye, Bogra, Pubna and Maldah, which are said to be very well, if not thoroughly, protected by vaccination, no deaths occurred from small-pox :-

	pe	Ratio or millo.			Ratio mille.			Ratio per mille.
Julpaiguri	***	12.72	Jessore	 ***	3.96	Rajshabye		3.00
Nuddea		8.60	Durhhanga	 	3.96	Tipperah	1.00	3.00
Shahabad	* * *	6.84	Balasore	 	3.96	Mozufferpore	001	3.00
Maldah	0.0.0	5.52	Patna	 	3.72			2 38
Mymonsing		4.08	Rungpore	 	3:24	The state of the s		2.76
Murshidabad		4.08	Backergung		9.24			

The Classes or Nationalities into which the population of the registrative area is divided, presented the following death-rates, as contrasted with the rates of the preceding month:

					wario b	or mino.
					In May.	In April.
Christians			* * *		19.20	15:00
Hindus		0.0.0	0.0 4	0 0 4	16.20	17.52
Mahomedans	* * *				10.92	18.72
Budhists	***			0.0.0	11.88	11.04
Other races			0.00	4 5 5	13:08	12.84

These figures represent a decrease in the mortality among Hindus and Mahomedans and an increase among the other denominations, particularly among Christians, in comparison with the death-rates of the preceding month.

Referring to mortality in relation to Age, infants under one year furnished a death-rate of 82.44 per 1.000 of the living, against 91.92 per 1,000 in the preceding mouth, and old men of 60 years and upwards of 33.84 per 1,000, against 39.72. The mortality under the rest of the groups of ages columned in the table, ranged from 23.40 per 1,000 among those aged 50 to 60 years to 8.16 per 1,000 among those of 10 and under 15 years, the corresponding proportions in the preceding mouth being 27.12 and 8.40 among those of the corresponding ages, respectively.

F. W. A. DEFABECK,

Offg Sanitary Commissioner for Bengal.

The 7th July 1883

Statement showing the Results of the Registration of Deaths in the instricts in Bengal for the month of May 1883.

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### MEMORANDA.

THE subjoined table exhibits the vital statistics of the first class municipalities in Bengal

for the week ending 23rd June 1883. The figures submitted in this table indicate—
(1.) That the birth and death-rates amounted, respectively, to 21.2 and 28.4 per 1,000 of population, as opposed to the birth and death-rates of 14.7 and 27.3 per 1.000, respectively, in the preceding week ending 16th June, showing that both the birth ratio and the death ratio were higher during the week under review.

(2.) That the following municipalities returned the largest proportions of births and

deaths during this week :-

•		Births.			Deaths.		
			Ratio per mille.				Ratio per mille.
Patna	0 0	0 0	62.3	Mozufferpore	4 0		62.0
Burdwan		• •	25.9	Durhhanga	• •		55.1
Bhagulpore			23.5	Gyn			44.4
Comillah			23 1	l'urneah			41.6
				Patna			35 4
				Comillah			34.7
				Bhagulpore			32.6
				Jessore			30.6
				Poori			30.0
				Darjiling			29.6
				Kishnaghur			28.8
				Chuprah			28 3
				Suburbs of Ca			27.1

That the mean rates at which the several death-causes mentioned in the table proved fatal, in comparison with the rates of the preceding week, were : -

					1,000 during ending
				23rd June.	16th June.
Cholera		 		4.5	5.6
Small-pox		 		*4	.4
Fever		 0.0		11.7	11.7
Bowel-compl	aints	 		4.5	3.1
Injury		 	0.6	•4	.3
Other causes	9 0	 		6.9	62

indicating that there were an increase in the death-rate from bowel-complaints, a decline in that from cholera, equal mortality from small-pox and fever, and no material difference in fatality resulting from the other diseases.

(4.) That, individually considered, the greatest suffering from cholera and fever occurred in the undermentioned municipalities, the other diseases exhibiting no special local severity :-

	Cholera.			1	Fever.			
		B	tatio per mille.			3	Ratio per mille.	Year.
Mozufferpore .			21.9	Comillah		0 0	30.8	
	0		15.0	Purneah			27.7	404
Durbhanga .			12.6	Mozufferpore			21.9	
Chuprah .			6.8	Gya			21.2	
Suburbs of Cal	cutta		6 4	Kishnaghur			20.0	

(5.) That referring to mortality with reference to Class or Nationality, Christians died this week in the highest proportion, Hindus in the next degree, and Mahomedans at the lowest rate; and that there occurred only one death among the Budhists, the casualty being recorded in the Darjiling Municipality.

(6.) That with regard to mortality referable to Age, infants, as usual, perished in the largest number, (1995 per 1,000), and next to them children of one and under five years, (60 per 1,000); that the aged also returned a high mortality, (493 per 1,000); but that the largest suffering occurred among adults of 10 and under 15 years, (126 per 1,000)

lowest suffering occurred among adults of 10 and under 15 years, (12.6 per 1,000).

F. W. A. DEFABROR,

Officiating Sanitary Commissioner for Bengal.

The 9th June 1883.

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	91			NAN		urdwan	idnapur	ugitli an	Prampore	terpara	darrao	nburbso	schnagar	tedaena	untipore	agore.	ampore !	arjiling.	MCC8	araingua	nittagong	millah	atms City	2	dar	osufferp	urbharga	andas	bagmipor	onghit	umenh	- Luor		SANIT	The
						:	:	1	J. :	7	:	(E)			8			- D	7	7.		:	1		W	;	:	i	:	=	-	i i			
				RICTS.			:	0 0 0				2		0 99 8		:	***	2	:		1	:	ŧ	**	1	1	:	ì	ì	*	i	1	H	OFFICA OF	
Burdenn Midnapur Hughli Hughli Geraspore Bajahabye Darjiling Dece Chittageoug Tipperah Fafra Gya Shahabad Montflerpol Durbhanga Bayan				DIST	,	Burden	Midnapur	ghli	Serampore		que	Perguans		ddes		9,000	ahahye	jiling	8		Stageong.	perah	20	:	hadad	Musufferport	-bhanks	d.D	Hhagu ipore	ngbyr	noah	'E		0	

Results of the Meteorological Observations taken at the Alibore, Observatory from 1st to 7th July 1883.

			ans jo	barometer	T	BMPRR	ATURB.		1	ITORON	STRT.		WIND.			
Month.	Data.	Marrimon is sale.	Number of hours o	Mean pressure baro at 32" Fahr.	Monn.	Marintom.	Range	Minimum.	Mean wet bulb.	Vapour tension.	Dew point.	tlumdity.	Prevailing direction.	Miles regorded.	Hasp.	Waated.
1888.		0		In hes.	0	9	$\Theta$	Θ	9	Inches	0	0/0			Inch-	
July	1st	156.4	4	29:601	83.0	88:6	12.4	76.2	80.0	0.096	78.8	88	SE, ESE and S by W	118	0.03	Cloudy, o, g, p,
00	2nd	155 8	10	*508	84.8	90.2	11.6	79.0	80.0	1.008	79-4	84	S, SE and SSW	75	Nil.	Chieffy cloudy.
10	8rd	148.6	7	*618	83 5	89.0	98	79-2	79:2	0'912	77 4	82	SSW, WNW and va-	87	0.12	Cloudy, o, g, d,
	4th	128.6	Nil	*567	80 7	84.8	7.0	77.2	78.6	1952	77:7	91	NW and W by N	90	2 16	Cloudy, o, g, p; d
33	5th	158.4	б	*474	81.3	88.8	98	79.2	78 6	*936	77.3	87	NE by E and N by E	163	0.22	Cloudy, o, E, d,t
,,	6th	147.6	6	443	83.3	88-4	9.7	78.7	79.0	1966	78.1	85	E and ESE	229	0.53	Cloudy, o, g. p.
99	7th	144.0	Nil	*481	83 8	87:4	8.3	7.12	79.1	-941	77.4	83	SE, E and SSE	281	0.19	Claudy o, g, d,
				ure of				drug	peru	ort from	24 ye	ears	. S. G. Office		***	29·539 29·548
	The The The The	avera total i meau avera extrei	temp	enaure of h	of the	of sur	enponeshine eu da orres	ys pondi	ng pe	veu da	or 24	. ye	are, S. G. Office			29.539
	The The The The The	avera meau avera extrem	temp ye tem ne va	er of herature	of the	of sur	emponeshing ou da orres iture	ys pondi durin	ng pe	ven da eriod i seven	or 24	ye	ars, S. G. Office			29.539 29.548 Hours, 32
	The The The The The	total i	temp ge tem ne va num	ensure of herature uperature uperature reation temper.	ours of the of the	of sur	emponeshine eu da orres iture ig the	ys pondi durin a seve	ng pe g tue u day	ven da	or 24	ye s	ars, S. G. Office			29.539 29.548 Hours: 32
	The The The The The The The The	mean averagentres maxim	temp ge tem ne va num at vei	erature of herature uperature ration temper.	ours of the of the f the	of sur	en da orres ture in on on or	ys pondi durin seve hou ne squ	ng peg the g the day	ven da	or 2-	yes the	are, S. G. Olfice	. 0		29.539 29.548 Hours, 32

at the Kew Observatory. They are exposed under a thatched shed open at the sides, and are suspended four teet above the ground.

The parometer readings are corrected approximately to those of the standard Newman's No. 86 formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the otheral tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The direction of the movement of the wind are taken from the trace of a Beckley's anemograph.

The mouth of the rain-gauge is one foot above the ground.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, p passing temporary showers, t thunder, d drissling rain, lr lightning reflection.

John Eliot,

METHOROLOGICAL OFFICE, INDIA, The 9th July 1883.

For Meteorological Reporter to the Government of India.

Results of the Thermometrical Observations taken at the Meteorological Office, Chowringhee, from 1st to 7th July 1883.

			0.		Тимрии	ATURB.			Hyerom	BYST.		
Монти.		1000		Meab.	Mariento	Statte.	Minimum.	Mean wet bulb.	Vapour tention.	Dew goint.	llumidity.	Rain
1888.				0	n	0	0	0	Inches.	0	0/	Inches
July	841	Int		89.7	84.8	120	78.8	79.4	*961	78'0	80	Nil
pt	044.4	Merch		8-1-6	91.4	116	70.8	81.3	1.058	80.0	86	90
91		Sed		843	80.0	93	80.7	90.08	'995	79.1	8.6	99
29	001	4th	101	700	8.98	86	77.3	78.4	1986	78.3	88	8.12
		Gth	407	8008	681	8.8	79 3	79.3	1985	788	94	0 09
. 0	49.4	ertifa.		82 4	87.8	8.0	78'8	80.0	GOIL.	7/9:0	89	0.41
	101	714		82.3	88.6	9.4	79.8	79.8	.985	788	89	0.01

					0
9	The	mean temperature of the seven days			82.3
	The	extreme variation of temperature during the seven days	****		14.6
	The	maximum temperature during the seven days			91.4
					0/0
	The	mene relative humidity during the seven days	4 0 4	100	89
					Inches.
	Tue	total fall of rain from 1st to 7th July 1883		400	4.28

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the nourly observations at the Surveyor-General's Office, Chowringhee, in past years.

METROROLOGICAL OFFICE, INDIA,

JOHN ELIOT,

The 9th July 1883.

For Meteorological Reporter to the Gout. of India.

Abstract of the results of the Thermometric Observations taken at the Meteorological Office, Chowringhee, in the month of June 1883.

40					9	Date.	
The	mean temperature during the month		0 0 0	004	83.4	A/R 90.	
The	highest temperature during the month		6 0 0		99.0	1st and	7th
The	lowest temperature during the month		* * *		75.8	5th and	18th
The	range of temperature during the month			1	23.2		
The	mean daily range of temperature during	the month			12.3		200
The	greatest range of temperature in one day	during the	month		20.6	5th	
7					0/		
The	mean humidity during the month		•••	•••	85		
					Inches.		
The	mean vapour tension during the month				972		
The	total rainfall of the month	000		***	11.96		
The	greatest fall in 24 hours	100	***	***	2.44	14th	
2 3					Days.		
The	number of rainy days in the month	100	* * *		17		

JOHN ELIOT.

For Meteorological Reporter to the Govt. of India.

The 9th July 1888.

Abstract of the results of Meteorological Observations taken at the Alipore Observatory in the month of June 1883,

					-
Ambo		-	Inches.	Date.	hour
The mean pressure of the month			29.519	70	10.
The average pressure of 24 years			29.549		
The highest pressure during the month	4 0 0	***	29.773	1st	10h.
The lowest pressure during the month			29.214	29th	16h.
The range of pressure during the month	***	***	0.559	~ 6 612	1011.
and stange or product and the artists	***	***	Hours.		
The total number of hours of sunshine du	iring the month		136		
			0		
The mean temperature during the month	149		83.9		
The average temperature of 24 years	0.0.4		85.0		
The highest temperature during the mont	th		98.7	lst	
The lowest temperature during the mont	h	+ 0 +	73.2	5th	
The range of temperature during the mo	nth	***	25.5		
The mean daily range of temperature dur			13-1		
The greatest range of temperature in			20 .		
month			21.3	5th	
			Per cent.		
The man humidite during the month					
The mean humidity during the month	6 Ø P	0.0.0	83		
The average humidity of 24 years	* • •	0 0 0	81		
			Inches.		
The mean vapour tension during the mou	th		0.960		
The average vapour tension of 9 years			0.998		
The mean cloud proportion of the mouth			7.94		
The total rainfall of the mouth			10.20		
The total rainfall of the month indicated		mulf-	10 20		1
registering rain-gauge (mouth of the			9.55		
The average fall of 48 years	Sauge ov o icce i	- ·	12.08		8
The greatest fall in 24 hours	* * *		2.40	1.4	
THE STUDENT AND AT HOUSE	4 0 4			lst	
			Days.		
The number of rainy days in the month	0.00		20		
The average number of rainy days of 24	rears		19		
			0		lac
The mean maximum equilibrium temperat	ure of solar radi	ation			94
of the month		***	146 4		
The mean difference of sun and air tempe	ratures		55.6		
The greatest sun temperature			161.9	Q.L	
The greatest excess of sun over air temper		000		8th	
The mean temperature of nocturnal rac		notes	68.6	23rd	
on woollen cloth	ATESTON OF THE PROPERTY.		75.0		
The mean depression of nocturnal re	distion thormar		15.0		
below the minimum of air	MISSION CHEFINOE	ueter	0.0		
	disting the	400	2.8		
The greatest depression of nocturnal ra	biation thermon		4.0	2 4	
below the minimum of air	9 @ 0	• • •	4.8	lst	
			Miles.		
The mean movement of the wind per day	***		153.8		
The greatest movement of the wind in on	e day		472.0	29th	
The greatest movement of the wind in one	hour		28.0	29th, 10 t	o II a w
The number of hours under each of the		.44		-weinj 20 b	J. L. A.M.

N. 2, NE. 18, E. 90, SE. 108, S. 238, SW. 213, W. 88, NW. 9, Calm 4.

The results of observations at the Alipore Observatory are not rigorously comparable with the registers of past years (at the Park-street Observatory). The barometer is about 3 feet higher at Alipore, and, other things being equal, reads therefore 003 lower. The diurnal range of temperature is also greater at Alipore, and the mean temperature apparently about 0.5° greater; and finally, the thermometer, which has furnished the record of temperature at the Surveyor-General's Office during the last 20 years and upwards, is found to read 0.6° higher than the Kew standard thermometer, which is the standard of reference at the present Observatory.

N. B.—In the monthly abstract for April 1883 road 0'840, instead of 0'835, as the mean vapour tension during the month; and in that for May 1883 read 76 per cent., instead of 75 per cent. as the mean humidity, and 0 944 instead of 0'986 as the mean vapour tension during the month.

JOHN ELIOT,
For Meteorological Reporter to the Govt. of India.

# PUBLIC WORKS DEPARTMENT, BENGAL.

# IRRIGATION BRANCH.

IRRIGATION OPERATIONS FOR THE OFFICIAL YEAR 1883-84.

Areas leased for Irrigation up to the end of May 1883.

			Mulia Para		Carab were laid dry for clearance current the month. For element abune of series for \$40 area were consisted during the month.		1				e The furnicane gress returned in t pointh were incor-				
			Up to end of month.	faches.	10-87	:	0	9-95			1.96		*******	****	
	BAINTA	1882-83	Puring e	Inches.	90			100 mg	9 00 0		0740 1767 1796			*	
	11	4	Up to rend of month.	Inches	91			5.63		*	0.18			0 0 0	
	RAINPALL	200 - 200 -	During month.	Inches.	69.4	1		4.51		* , 110				******	***
			Grand Total.	Acres.	\$ 22 22 53	10	123,735	\$1,455 9,541	63,634	103,982	4,135 11,245 56 578 214 10,380	89.163	61,683	153.551	289,396
			Total.	Acres.	8 -5 2 2	503	119	: :			18 18 E	10,11\$	15,834	10.408	15,953
			Hot weather.	Acres.	\$ 41	65			:		6,108	6,173		6.300	
	DETAILS OF AREAS LEANED.	LEASES.	Bhadoi.	Acres.		:					12	153	1	154	***
	OF AREAS	ANNUAL LEASES.	Sugar-	Acres.	1	139	GID.				1,631	3,705	12,400	3,914	12,417
	ETAILS (		Rubbee.	Acres.	8 615	140	==						90,400	140	3,536
	(pased		Khur- red.	Acres.		1									:
			Five vegrs. Khurreed.	Acres.	0#	(49)	123,823	53 krs 9,×01	(S), 856	103,862				61,036	252,655
			Pive veary. All chops.	Acres.		d.				:	2015.21 61.513 10,812 10,812 10,812	79,049	45.7.58	79,049	45,748
	Approxi-	of land i	hrigsten last year at same time.	Acres		-	:			*	4459 733 1557	7.301	*** eq	11827	0.000
	Approxi-	of land	62	Acres.		** **			*****		10,557	11,300		11,948	***
		Dis	utilizad.	C. 19.		:	1	******		******	18		00-004		***
		Average	in month.	C. ft.		***	*******	30	*****	***	E S	******			
		Esti-	charge.	C. ft.	1,924 2,825 1,694 1,694 1,695 1,695 1,695 1,787 1,617			14.6		*	1,460	-	****	***************************************	
		8	OAB Alico		Kendrapara	Total	the corresponding period of last	Midnapore	Total	responding period of last	Western Main   Buxar   Annah   Chestern Main	Total	Total of the corresponding period of last	Grand Total	Grand total of the corresponding period of last year
The state of the s		Disparcy			Ovitack Relesore		Total of the co	Widnispore	•	Total of the corresponding year.	Shahabad Fatos and Gya		Total of the co	-	Grand total of the
Section 1		9 9 9 9	1		Orism			South-Western.			Section 1				

The 10th July 1883.

Sery to the Govt. of Bengal, P. W. Dept.

#### Weekly Return of Traffic Receipts on Indian Railways.

#### EAST INDIAN RAILWAY.

Approximate Return of Traffic for week ended 30th June 1883 on 1,509 miles open.

45.	COACHIB	e Trappic.		AND MINHBAL	Other carnings	Man-1	TOTAL 7	TRAIN-MILM	NUE.
15 1	Number of	Coaching receipts.	Weight carried.	Receipts.	(estimated).	Total earnings.	Comehing.	Merchan- dine.	Total.
Total traffic for the week Or per mile of relives For previous 245 weeks of half- year.	223,217 5,432,940	Ra. A. F 2,22,322 1 147 5 61,12,511 9	Mda. a. 28,68,729 0	Ra. A. p. 9,12,622 0 9 604 12 7 1,83,87,960 15 1	Ra. a. P. 20,624 10 5 18 9 7 5,80,598 8 7	Ra. A. P. 11,55,468 12 2 768 11 6 2,80,31,076 12 S	64,052	195,728}	349,775 <b></b> 5,161,508
Total for 25‡ weeks	8,650,160	63,34,833 10	7,14,50,901 80	1,93,00,568 15 10	5,51,122 10 0	2,61,86,545 8 5	1,717,846	3,693,987}	5,611,283}
lota, if corresponding week  revious year  let and of railway correspond- work of previous year  fotas to correspondink date of previous year	171,236	1,78,403 1 11B 6 71,21,606 10	5	4,90,360 5 3 325 7 1 1,74,63,184 1 5	42,562 0 7 28 0 9 0,21,466 7 0	7,11,024 7 6 . 471 14 3 8,82,04,227 2 6	42,659}	91,169 	183,889 }

#### BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

				RECEIP	TO 1	701	WHEE BAD	1 W	9	TOTAL			PTS FROM 187 UART		Total in			Total	Persontage
Letest return received.		Name of Railway.	pen.	27th May	186	32.	26th May	18	RB.	To 27th		ау	To 26th Ma	y	in it			n 1883.	of increws or decrease.
1883.	1		Miles.	Re.	Δ.	p.	Ra.	Α.	p.	Ro.	A	. p.	Ra. A	. P	Rs.	Α.	P.	Re. A. P.	Ru.
2nd June Dicto	***	South-Eastern.	230 1548 43	89,994 12,447 7,650	0	0	45,316 20,753 6,435	0	0	7,99,202 2,88,878 77,048	0 0	0 0	9,69.775 0 8,40.246 0 1,52,577 0	0 0	1,70,573 51,599 46,029	0	0	*******	+91 +18 +65 +16
Ditto		Nullimiti	450	61,563			78,086	0	_	11,93,467		0	14,67,376 0		2,71,919	0		*****	+23

#### BENGAL PROVINCIAL RAILWAYS.

Weekly Statement of Traffic Receipts.

			1	Y	RECEIPT	8 P	OE	MRBE BAD	1 14 0	3	TOTAL BEC	100 0 1	PTS I	PROM INTJAI	HUARE	Total in	o mod		Total	Percentage
	receive		Name of Railway.	Length open.	3rd Ju 1882			2nd Ju 1858.			To 3rd J 1882.		10	To 2nd J 1883.	unu		83.	739(5)	decrease in 1893.	inormuse or decrease.
	1883.	-	Northern Benzal	Miles.	Re.	A. 1	p.	Ro. A	. 2		Rn.	Δ.	P	Ru,	A. P.	Rn.	٨.	P.	Ra.	Re.
and .;	do	 ***	Tirhoot and South-Emstern Nathati	230 1592 43 471	33,529 12,23N 2,684 1,730	0 0 0	0	84.745 19,678 5,728 1,462	0 0 0	0 6 0 0	8,82,731 3,01,110 80,132 31,-59	-	0 0	10,05,520 3,59,934 1,28,303 30,440	0 0 0 0 0 0 0	1,72,789 58,888 65,173 4,881	0 0 0	0 0	**************************************	+ 20 + 10 + 60 + 15
			Total	459	50,061	0	0	62,813	0	0	12,45,586	0	b	15,30 180	v v	2,84,051	0	U	******	+23

#### DARJEELING-HIMALAYAN RAILWAY COMPANY, LIMITED.

Weekly Statement of Traffic Receipts.

			WHEE ENDING	TOTAL RECEIPTS	PROM In: JANUARY	Total increase	Total decreas	Percentage
received.	Length open.	3rd June 1982.	ard June 2nd June To 3rd June To 2nd June				in 1885.	increase or decrease,
4th July 1863	80	Ro. A. P. 0.869 5 9	Re. A. P. 10,143 13 B	Rs. A. P. 1,46,070 4 9	Rs. A. P. 1,53,712 & 1	Rs. A. P. 7,062 0 6	Re. A. P.	+51

Culoutta, the 4th July 1883.

GILLANDERS, ARBUTENOT & Co., Agente.



## SUPPLEMENT TO

# The Calcutta Gazette.

WEDNESDAY, JULY 18, 1883.

#### OFFICIAL PAPERS.

Non-Subscribers to the Gazerra may receive the Supplement separately on payment of Six Rupees per annum if delivered in Calcutta, or Twelve Rupees if sent by Pass.

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#### ANNUAL REPORT OF THE GOVERNMENT CINCHONA PLANTATION IN BENGAL AND THE ANNUAL REPORT OF THE QUINOLOGIST FOR THE YEAR 1882-83.

FINANCIAL DEPARTMENT—AGRICULTURE

Calcutta, the 10th July 1883.

RESOLUTION.

READ-

The Annual Report of the Government Cinchona Plantation in Bengal for the year 1882-88, and the Annual Report of the Quinologist for the same year.

The result of the planting operations of the year shows a decrease of about 50,000 cinchona trees on the returns of 1881-82. This is due to the uprooting of a large number of the Calisaya and hybrid varieties which were found to possess bark of poor quality. Some 160,000 red bark trees were also uprooted in the ordinary rotation, and were replaced by the yellow bark and hybrid varieties. Nearly all the land within the existing cinchona reserve suitable for the cultivation has now been planted out, and the Superintendent accordingly applied, in October last, for permission to plant out with Ledgeriana and the hybrid variety a tract of land in the trans-Teesta portion of Darjeeling which had been reserved for Government cinchona cultivation. Both these species have been proved by repeated analyses to be very rich in quinine, while most of the yellow bark or quinine-yielding trees on the existing plantations at Mungpoo are quite young, and the whole stock is not sufficient to furnish, even when mature, enough back to employ the factory profitably for more than a few weeks in the year. There is in fact no plantation of these trees actually

in existence, while the nurseries have a magnificent stock of nearly half a million plants of the best sorts of yellow bark trees which would be lost unless the seedlings were speedily planted out. The proposal for forming the new plantation was readily approved by Government, and measures have since been taken for planting out the reserve with a number of the best kinds of Ledgeriana and hybrid einchonas.

2. In the Resolution recorded upon the proceedings of last year, it was remarked that there were several distinct forms of the hybrid variety, and analyses were given of the samples of bark of four of these forms. During the year under review the Superintendent had analyses made of four more of these forms, and the results obtained from all the eight hybrids are compared in the

following table :-

	No. 1.	No. 2.	No. 8.	No. 4.	No. 8.	No. 6.	No. 7.	No. 8.
of clustenidine	2'87 2'04 traces.	1'48 2'85 traces, 0'57	1'88 2'93 tracis. 0'52	0'97 1'94 traces. 0'80	2°12 2'84 traces. 0°83	2:04 2:20 traces. 0:08	6:12 2:66 traces. U'65	3199 18183 traces, 0157

Dr. King points out that hybrid No. 4 is very poor in quinine, and it was the trees of this sort that were uprooted during the year. No. 7 appears to be exceptionally rich in quinine, and the plantations of this variety might with advantage be extended.

The total number of cinchona trees of all sorts at the close of the year was 4711,168, namely red (Cinchona Succirubra) 3,713,200, yellow (Calisaya Ledgeriana) 662,998, hybrid unnamed variety 304,378, and other kinds 30,592.

3. It is satisfactory to observe that the crop of the year is the largest that has yet been harvested on the plantations. It amounted to 396,980 pounds of dry bark, of which 372,610 pounds were of Succirubra, 22,120 pounds of Calisaya and Ledgeriana, and 2,250 pounds of hydrid bark. By far the largest portion of the produce was made over to the factory for conversion into cinchona febrifuge, while about 41,800 pounds of yellow and red barks were sent at the request of the Secretary of State to London to be there converted into various forms of febrifuge and returned to this country for trial by the Medical Department.

4. The expenditure on the plantations amounted to Rs. 80,739-6-2 against the budget allotment of Rs. 82,225. Of this expenditure Rs. 17,548-3-9 was incurred on the newly opened trans-Teesta plantation, and on the young plantation at Sittong. This sum is chargeable to capital account. The balance, amounting to Rs. 63,191 2-5, which was spent on the old plantation, and includes charges on account of packing and carriage of bark sent to

England, is chargeable as working expenses.

5. It is disappointing to notice the continued failure of Carthagina bark, notwithstanding that the utmost care has been taken of the plants and every endeavour made to grow them at various elevations and with various exposures. Only three plants were alive at the close of the year. An attempt has been made by the Superintendent to introduce the Remija plant, which is a genus botanically allied to cinchona. It is said to be less particular than cinchona as to soil and climate, and produces a quinine-yielding bark under the name of Cuprea. This bark forms a very large proportion of the quantity of quinine bark imported into Europe. Although the first attempt to grow the plant in the Mungpoo plantations has not been quite successful, Dr. King entertains hopes of successfully acclimatizing it, when he is able to procure a more adequate supply of seed. The Lieutenant-Governor will await the result of the experiment with much interest. The surplus seed of the Carisaya Ledgeriana was as usual distributed during the year gratuitously amongst applicants.

6. Dr. King has eventually succeeded in obtaining an analysis of the bark renewed on Succirubra trees that had their original bark removed by the shaving process introduced by Mr. Moens, the distinguished Director of Cinchona Cultivation to the Dutch Government. It appears that this process consists in shaving off the greater part of the bark of a living tree to the height of from eight to ten feet from the ground, care being taken to leave everywhere a sufficiently thick layer of bark to cover the wood. This method has had a

fair trial on the Sikkim plantations, and the result has, beyond doubt, been favourable, as the bark renews perfectly. What, however, remained to be seen was whether the renewed bark was as rich in medicinal alkaloids as the original. It was with the object of determining this question that the analysis above referred to was undertaken during the year. The results are thus described by Dr. King: "The bark renewed rather slowly, but the analysis shows that it is very rich both in quinine and cinchonidine; and there can be no doubt that in countries where red bark trees are perfectly at home, and where their continuance in good health and vigour for a long series of years can be absolutely counted on, this shaving process must be a very excellent one."

7. An interesting feature in the operations of the year is the low cost at which the febrifuge was turned out. The price of the febrifuge necessarily fluctuates from year to year, but in no former year has it been so low as Rs. 8-8 a pound. This satisfactory result is attributed chiefly to the larger percentage of the alkaloids (2.78) extracted from the bark used in manufacture. The issues, however, fell below those of 1881-82, though they were a little in advance of those for 1880-81. The following table compares the distribu-

tion in the past three years :-

and the proof of the same			1880-1 <b>b</b> .	91. OZ.	1881-8 To.	33. OZ.	1881-0 lb.	
To Medical Depôt, Calcut	ta		8,000	0	8,386	0	2,000	0
Ditto, Bombs			2,000	0	1,000	()	1,000	0
Ditto, Madre	18		500	0	800	0	350	0
To Colonial Government, To Surgeon-General for		ledical			***		150	0
Officers of Bengal To Inspector General of	***	jails	10000	•	995	4	803	12
and lock-ups, Bengal			*****		1.4	12	26	12
Sold to the public			3,150	11	4,680	0	4.560	12
Given as samples	* * *	4 4 4	3	2	2	9	10	0
	Total	9.9.1	8,653	13	10,878	9	8,901	4

The issues to the public were 120 pounds below those of 1881-82, and not in excess of that year as stated in the Superintendent's report. The stock of febrifuge in hand on 31st March 1883 amounted to 2,962½ pounds, which, though greater than that with which the year opened, is by no means too large a reserve to meet emergencies.

8. The revenue derived from the sale of the febrifuge, seed, plants, and back amounted to Rs. 1,52,807-1-0—

		Tr.s	A.	P.
By sale of febrifuge, seed, plants, and bark to the public		80,577	9	0
By credits from the Medical Depot of (alcutta		33,766	0	0
Ditto ditto of Bombay		16,500	0	0
Ditto ditto ditto of Madras		5,775	0	0
Ditto from Colonial Government of Mauritius		2,475	0	0
Ditto from the Surgeon-General, Bengal		13,271	8	0
Ditto from the Inspector-General, Jails	0 0 0	442	0	0
Total		1,52,807	1	0
•	401	-,,,		0

The operations of the year resulted in a profit of Rs. 66,284-9-5, which is equal to a dividend of 6½ per cent on the capital outlay. This is exclusive of the cost of a considerable quantity of the bark sent to the Secretary of State which has not been taken into account. It must, moreover, be borne in mind that these profits do not represent the whole of the gain of the year. The cost of an equal quantity of quinine at Rs. 96 per pound would have been Rs. 4,01,328. The cost of the febrifuge used was Rs. 68,988-8. There was thus a saving of Rs. 8,82,840. The total saving effected since the opening of the factory by the substitution of the febrifuge for sulphate of quinine amounts to Rs. 23½ lakhs, which is more than twice the amount of the cost of the plantations.

9. Considerable attention was given during the year to the improvement of the process of manufacture. The present system is admittedly wasteful, in that it fails to convert into febrifuge the whole of the alkaloids which the bark contains, while there is no doubt that, by the adoption of a different and more costly process of manufacture, a still larger percentage of the

medicinal alkaloids could be extracted. It is not, however, equally certain whether the febrifuge so obtained could be turned out at a less cost per pound. The whole subject of the course to be adopted in the disposal of the raw produce of the plantations is still under the consideration of Government.

10. The thanks of the Lieutenant-Governor are again due to Dr. King, whose management of his department leaves nothing to be desired. Dr. King has reported very favourably of the services of Mr. Gammie, and the Lieutenaut-Governor entirely concurs in the praise accorded to him. The other assistants of the Department are also well spoken of.

By order of the Lieutenant-Governor of Bengal,

COLMAN MACAULAY,

Secretary to the Goot. of Bengal.

# RESOLUTION ON THE REPORT ON THE ADMINISTRATION OF THE METEOROLOGICAL DEPARTMENT DURING THE YEAR 1882-83.

REVENUE DEPARTMENT - MISCELLANEOUS.

Caioutta, the 17th July 1883.

MESOLUTION.

READ-

• viz. Saugor Island. Outtack. Chittagong.

Akyab. Dacca and Darjeeling.

The Report of the Meteorological Reporter to the Government of Bengal, on the Administration of the Meteorological Department during the year 1882-83.

The Lieutenant-Governor desires to thank Mr Eliot for his interesting report. Mr. Eliot has not only adequately described the changes recently introduced for extending the observations of the department and for improving the weather report, but he has also furnished a full account of the work done during the year. As Mr. Eliot's report is, therefore, of more than usual interest, the Lieutenant-Governor thinks it desirable that it should be published; and this Resolution will be mainly confined to a brief statement of the previous history of the department, with the view of completing the information contained in the report.

2. Up to the year 1865 the only regular observatory in Bengal was that attached to the Surveyor-General's Office in Calcutta, at which observations had been recorded hourly since 1853. An attempt was made in 1847 to obtain statistics of temperature and rainfall at all sudder stations, and returns were furnished for several years, but they were found to contain such grave discrepancies as to be useless for all practical purposes. The destruction of life and property caused by the great Calcutta cyclone of the 5th October 1864 brought prominently to notice the necessity of bestowing greater attention on the study of the meteorology of the country, and in April 1865 the Lieutenant-Governor, Sir Cecil Beadon, appointed a Committee, with Mr. H. F. Blanford as Honorary Secretary, to establish a system of telegraphic reports, such as would serve to apprise the shipping of Calcutta of the approach of cyclonic disturtances.

The Committee accordingly established six observing stations, and started the publication of daily weather reports of the

the publication of daily weather reports of the observations telegraphed from those stations together with the observations taken at Calcutta, and others received from the Madras observatory and a private observer in Ceylon.

3. The preliminary arrangements of the system inaugurated by the Committee having been completed, it became necessary to entrust the further control of the work to a special officer, and in April 1867. Mr. Blanford was appointed Meteorological Reporter to the Government of Bengal, and the executive duties of the Committee were transferred to him The system continued to expand, additional stations were established, and further steps were taken for securing an efficient system of storm-signals and warnings for the town and shipping of Calcutta.

4. In 1871, in order to familiarise the local officers with the use of statistics, and with the observation of facts which every district officer ought care fully to watch in a country where such a surprise as the famine of 1866 was possible, Sir George Campbell prescribed the punctual submission of a weekly return of the state of the weather and prospects of the crops. The variations of rainfall and weather, and other statistics relating to the agriculture of the Province were regularly published in the Calcutta Gazette, and it was due to these returns that the want of rain in 1873 attracted timely notice, and that early measures were taken to meet the famine which followed it in 1874.

5. The work of the Meteorological Department received a further expansion in 1880 by the introduction, under the authority of the Government of India, of a scheme of Marine Meteorology. In furtherance of the work connected with this branch of the Department, data regarding the weather on Indian seas are now collected through the medium of Hooghly pilots, and, where available, the logs of vessels coming into the Port of Calcutta. An attempt to collect such data through masters of vessels was made in 1868, but the attempt did not succeed, and it was finally given up in 1875. The present system, however, gives promise of better results, as many of the returns received from the captains of incoming vessels are found to contain meteorological data of

great value.

6. The further measures which have now been taken for extending and improving the usefulness of the meteorological reports are detailed in Mr. Eliot's report. Up to the close of 1852-83 meteorological observations were taken at 21 observatories, and rainfall returns were received from 164 stations, but under the new system there will be 21 additional observatories, and 156 additional rainfall recording stations. All portions of the province will thus be brought under daily observation; and it is to be hoped that the facts which will by this means-come upon record will enable a sufficient foundation to be laid for a trustworthy system of economic meteorology for Bengal. An improvement has also been made in the form and size of the daily weather reports, and these are now available at moderate charges for the information of the public.

ORDER.—Ordered that this Resolution, with a copy of the Meteorological Report for 1882-83, be published in the Calcutta Gazette.

By order of the Lieutenant-Governor of Bengal,

A. P. MACDONNELL.

Offg. Secretary to the Government of Bengal.

# ADMINISTRATION REPORT OF THE METEOROLOGICAL REPORTER TO THE GOVERNMENT OF BENGAL FOR THE YEAR 1882-83.

During the official year 1882-93, meteorological observations were taken regularly at one first class observatory, seven second class observatories, and twelve third class observatories in the provinces of Bengal and Assam. An additional third class observatory was established at Tura in the Garo Hills in the month of March 1883

During the year a series of changes was sanctioned by the Bengal and India Governments for extending the work of observation of the department, and for improving the publication of the meteorological data collected by the department for the information of the Government of Bengal, district officers, and the general public. As these changes very considerably extend and modify the department under my charge, it appears desirable to place on record a full statement of the reasons for the changes, and an account of

the circumstances under which they were made.

The origin of the proposals was a demi-official letter which I received from the Secretary to the Government of Bengul, Revenue Department, Mr. A. P. MacDonnell, on the 11th of August. In this he pointed out that the meteorological information published in the Gazette was not sufficient for the wants of the Bengal Secretariat, and asked if I could not arrange to publish weekly in the Gazette the meteorological observations taken over the province during the preceding week, together with a statement in which the more important meteorological features of the week should be clearly and prominently brought to the notice of Government and district officials. The attention of the Government of Bengal was particularly directed to the meteorology of Bengal and the working of the Bengal Meteorological Department at this time by the unusual lightness of the rains in Northern and North-Eastern Bengal. It was so serious at one time as to suggest the probability of a partial failure of the crops. The daily reports issued by the Meteorological Reporter to the Government of India gave very little information respecting this part of Bengal, and threw no light on the meteorological conditions of the district. The returns sent in to me by post and tabulated in the ordinary routine of the work of a small office did not shew until later that, although the rainfall was deficient and abnormal in character, this was due mainly to lightness of the rain showers and not to any diminution in the number of rainy days or in the amount of cloud. I replied to Mr. Secretary MacDonnell's letter on the 13th of August, admitting that the Bengal Meteorological Department was, in comparison with similar Meteorological Departments in European countries and the United States, very much behind hand in utilizing and publishing for the public benefit the meteorological data it collected. I pointed out that this part of the work of the department, " Economic Meteorology" as it might be termed, appeared to me to be of primary importance in India, and added that I should be willing, if the means were placed at my disposal, to use my utmost efforts to propose and establish an effective provincial meteorological system which should collect, tabulate, and publish, at frequent intervals, the results of the observations taken throughout the province at a sufficient number of stations to represent its more important meteorological conditions and changes adequately, together with a conparison of the current atmospheric conditions in Bengal with the normal meteorological conditions of the province, and to trace out, so far as I could, the connection between these variations in the elements of meteorological observation with the variations in the distribution of rainfall throughout the year. I also indicated roughly the more important changes it would be necessary to make in order to establish and develop a provincial system of meteorological observation which should keep the Government fully informed of the present meteorological conditions of the province and their variations from the normal conditions. Mr. Secretary MacDonnell replied demi-officially to this on the 29th of October, stating that I had correctly estimated and described what was required to improve the meteorological information supplied by my department, and that the Lieutenant-Governor approved the objects aimed at, and the general outline of the proposals I had suggested to secure these objects, and requested me to come up to Government

officially on the matter, and submit my proposals with the necessary fulness, and to state the modifications it would be necessary to introduce into the existing establishment and practice of the department.

existing establishment and practice of the department.

I spent a part of the College cold-weather vacation in collecting information, and finally submitted my proposals to the Government of Bengal on the 29th of December. The following extracts (with some slight modifications and change of verbal expression) will indicate the objects aimed at, and the

character of the proposals :-

"The Meteorological Departments in India ought to carry out two objects differing considerably in character and value. The first is that of contributing a share towards the advancement of meteorology as a science, i.e. of the determination of the exact relations which subsist between the various atmospheric conditions and changes and the effective causes or actions. India is the only tropical country which possesses a fairly complete and satisfactory meteorological system for this purpose. It also presents, from its geographical position, many unique meteorological conditions and features of great scientific interest and value. It is thus qualified to play a very important part in the progress of scientific meteorology. This it can do by collecting and publishing accurate observations, taken under suitable conditions, and also by discussing them in a scientific manner and distributing the results of its investigations to meteorologists over the world. This appears to me to be the work to which the Meteorological Reporter to the Government of India and his scientific assistant (lately appointed) are mainly devoting themselves, and to which they make the local reporters subservient. It is evident that it is immaterial whether the relations they are in search of are determined from observations of a day or a century ago, provided they are known to be accurate and reliable, and the investigations are exact. Rapidity in the collection and discussion of the observations is obviously not desirable, and might be

dangerous as leading to hasty and perhaps erroneous conclusions.

"The second object of the Meteorological Department is less important from a scientific aspect, but is of supreme importance economically in a country like India, which is dependent for its prosperity almost entirely upon its agricultural resources and productions, and where the fluctuations of rainfall are so great as to subject a large part of the country to the occasional occurrence of prolonged drought and intense famine. This second branch of meteorological work in India is to publish, for the information of the Government, and all others directly interested in it, frequent statements of the present meteorological conditions of the country and its variation from the average conditions, and, so far as is possible, anticipations of any impending important atmospheric disturbance. This it can only do by the rapid and continuous collection, tabulation, and discussion of the observations taken at the various reporting stations. This continuous consideration of the weather, as it is at the present moment, will alone furnish the experience, methods and instincts necessary to consider it as the invariable antecedent of the weather to come. This will gradually lead up in the case of Indian meteorological enquiry to the true test and the ultimate aim of every science—prevision more or less perfect. An early step in such a direction, for example, would be to previse the general character of the distribution of the monsoon rains from the atmospheric conditions of the preceding hot-weather months. This which may be termed "economic meteorology" in opposition to the first or "scientific meteorology," is of as great importance to the Local Governments as to the Imperial Government. It is included in the programme of the Meteorological Reporter to the Government of India. The publication of his daily weather report supplies sufficient information to satisfy the present requirements of the Government of India. But this report is published at too frequent intervals for the guidance of officials in Bengal, the remarks are very brief and general, and are especially defective in the most important point, viz. the distribution of rainfall in each province, more especially during the south-west monsoon, and are practically of no great value for the information and guidance of the Government of Bengal. This branch of meteorological work in India was the subject of special recommendation by the Famine Commissioners, as is shown by the following quotation (vide Report, Part I, paragraph 40):-

observations has been established all over British India, and in our opinion it is of primary importance that it shall be maintained in complete efficiency, and shall so far be strengthened and improved, as to ensure the early and punctual supply of information to the Executive Governments, and to the officials in all departments concerned with the agriculture of the country, or the preparations required to meet famines, as to the actual progress of the periodical seasons of rain in all parts of the provinces for which those Governments or officers are respectively responsible. So far as it may become possible, with the advance of knowledge, to form a forecast of the future, such aids should be made use of, though with due caution.

"This early and punctual supply of meteorological information is moreover, as General Strachey pointed out to me a few years ago, that part of meteorological work which the Local Governments ought not merely to encourage, but to promote, and which is more especially the province of the Local Reporters

as opposed to the Imperial Reporter.

The work proposed to me to carry out is identical in its general character with that stated by the Famine Commissioners to be one of the most important duties of the Meteorological Department, viz. the early and punctual supply of accurate meteorological information to the Executive Government and district and other officials. The extensions that I desire to submit to the Government of Bengal have this solely for their object. They provide for the daily submission of observations taken at 10 A. M. at 38 stations distributed throughout the province, and of rainfall returns from about 156 additional stations, and for their rapid continuous reduction, tabulation, and discussion in the Bengal Meteorological Office. The complete rainfail returns of the province I propose shall in future be considered at the same time and in conjunction with the meteorological observations. This will be effected by linking to each meteorological observatory the adjacent rainfall recording stations. By this mode of treatment I hope to determine all the more important meteorological features of each district, which will thus be represented by a group of one or two observing stations and several rainfall stations. In this way, more especially, the amount, distribution, and variation from the mean, of the rainfail throughout the province, can be approximately gauged by week, month by month, or season by season, and be recorded in the speediest and most exact manner for the information of Government.

"The present meteorological system established in Bengal appears, with the above objects in view, to be defective in the following respects:—

"lst.—The stations are too few in number to represent adequately the province of Bengal. They are in all fourteen stations for the whole of Bengal, Behar, Chutia Nagpore, and Orissa, including an area of 205,000 square miles. Of these stations two—False Point and Saugor Island on the seaboard—are maintained solely in connection with the Calcutta Storm Signal Service. The province of Bengal, occupying an area nearly twice as large as the British Islands, is represented meteorologically, for agricultural and economic purposes, by only twelve stations. The weekly agricultural and weather report of the British Island, published by the English Meteorological Office, is based on the meteorological returns of 66 stations, and I am informed that even that number of stations is considered insufficient. In making this comparison, I do not wish to as ert that observing stations should be as thickly spread in India, as in England, to give the same extent of information of weather conditions and changes. The weather in Bengal is undoubtedly much more uniform than in the British Islands. Irregularities of atmospheric conditions are also usually of a much simpler and more persistent character. Even taking these facts into consideration, it appears to me that Bengal is by no means sufficiently represented by its present twelve meteorological stations.

"2nd.—The present observatories are by no means equally distributed throughout the province. Large and important districts, from an agricultural point of view, are almost, if not entirely, unrepresented. The most, glaring example of this is Northern Bengal. The whole of the Bengal plains to the east of Purneah and to the north of Berhampore, Jessore, and Dacca, comprising, I believe, the entire jute-producing districts of India, does not

possess a single observatory. The more eastern districts are to a certain extent represented by Dhubri and Silchar. It appears, however, not too much to assert that Northern Bengal as a whole is unrepresented in our meteorological system at the present time. Similarly, the whole of the southern districts of Chutia Nagpore, and the Midnapore and Balasore districts, are outside the

range of observation of the existing stations.
"3rd.—The present system of twelve stations, which, even if it were in perfect order, would be insufficient to represent Bengal, is really, in consequence of a third defect, less efficient than it appears. Native observers, in consequence of their imperfect scientific instincts, and of the very slight scientific training given in Indian schools and colleges, are frequently inaccurate. And even if they have been carefully trained, many of them are liable to lapse into careless and erroneous methods. Frequent inspection at unexpected times, and more especially when the returns themselves indicate errors, more or less continuous, is an absolute necessity. Yet this, under the present system, is an impossibility in Bengal. I am bound down to Calcutta without a day's intermission for practically ten months of the year by the combination of my college duties, my storm signal and daily weather report work, and by the charge of the India Weather Office during the absence of the Reporter to the Government of India in Simla. I can only leave Culcutta on inspection duty for a short period during the cold season. Defects, observational or instrumental, may hence be prolonged for months, and even years, without detection. This defect is a very serious one. Each succeeding year's tour of inspection impresses it upon me more strongly.

"4th -The present mode of collecting, reducing, and discussing the meteorological observations is dilatory and unsatisfactory. If the sole object of the department were the collection and publication of accurate observations for the information of European Meteorologists, it would be unobjectionable. As pointed out by the Famine Commissioners, early and exact meteorological information is at all times valuable to the Government and district officers of Bengal, and occasionally it is a pressing necessity; and yet it is hardly too much to state that the Bengal Reporter can furnish to the Provincial Government fuller and later information of the meteorology of any portion of the British Islands than he can of the greater part of Bengal. It is not necessary to state fully the causes of this. It is sufficient to state that the present system has tended to centralization rather than to development; hence it is the Government of India that has mainly profited by the recent changes. The Provincial Government of Bengal is not as yet furnished with the early and punctual supply of meteorological information which it requires.

"The proposals aim at the removal of the defects enumerated in the preceding paragraphs, and at the carrying out of the object proposed :-

18t.—By the establishment of additional observatories. "2nd.—By the extension of the work of inspection. "8rd.—By the increase of my office establishment.

"4th.—By frequent publication of returns.

"I propose in future meteorological reports and discussions to divide Bengal into seven areas, each of which will be a fairly homogeneous area, and differ from the others in its meteorological features, more especially the amount and distribution of its rainfall. Each of these areas will be represented by three to seven observing stations, giving all the meteorological features, except rainfall, with sufficient fulness for present purposes. The rainfall will be determined by these observing stations and the 156 additional rainfall recording stations, three to five of which will be linked to each observing station so as to enable the rainfall of the district represented meteorologically by the observing station to be approximately determined.

The seven meteorological areas I propose are-

" 1st-Orissa.

"2nd-South-West Bengal, including the Burdwan and Presidency Divisions.

"3rd-East Bengal, including the Dacca and Chittagong Divisions. "4th-North Bengal, including the Rajshahye and Cooch Behar Divisions.

" 5th-North Behar, including the districts of Behar north of the Ganges.

"6th-South Behar, including the districts of Behar south of the Ganges.

" 7th-Chutia Nazpore.

In order to assign an adequate number of observing stations, it will be necessary to increase the present number very considerably. This I propose to effect through the agency of the Public Works Department, which has been most freely offered for the extension. I am informed by Major Neill, Assistant Secretary, Public Works Department, that observations are taken at Buxar, Arrah, and Dehree, and that they could be taken at a large number of stations by overseers. These men are specially qualified by their training in surveying to read such instruments as the barometer, and would make valuable observers.

The following are the stations which I have selected from the list given me by Major Neill where observatories could be established and the work of observation properly carried on through the agency of the Public Works

Department :-

Motihari. Ranchi. Chyebassa. Balasore. Midnapore. Raneegunge. Nya Doomka. Bhagulpore. Julpigori. Rungpore.
Dinagepore.
Serajgunge.
Mymensingh.
Furreedpore.
Commillah.
Noakholly.
Burrisal.
Rampore Boalia

Chupra.

"These, with the two stations of Buxar and Dehree, would give 21 additional observatories. This extension will necessitate the immediate erection

of 19 observing sheds.

"The Public Works Department, in making the offer of the services of these overseers as observers, did not contemplate that they should receive any remuneration, and I am not therefore prepared to urge upon Government its absolute necessity. On the other hand, a small monthly allowance will not only give them a tangible interest in their meteorological work, but also furnish me with some hold upon them for the proper performance of their meteorological duties. There wou'd thus he a reasonable probability of the additional observations being fairly trustworthy and accurate, and equal in value to those taken at our present observatories. My past experience shows that this would almost certainly not be the case if this additional work (not a part of their recognized duties) were imposed upon them without any remuneration. The monthly allowances would be granted conditional upon the punctual and accurate performance of their meteorological duties during the month, as tested by the returns received from them in my office. As the work would be less than at our present third class observing stations, I would suggest that these fourth class observers be granted allowances of ten rupees monthly. This will necessitate a yearly grant of its. 2,520. If these proposals be sanctioned, they will, I believe, give the department the increased power of observation, which appears to me necessary in the most effective and economical manner possible, and will remove almost entirely the first and second defects of the present system.

"As my meteorological duties are increasing year by year, I am unable to suggest any feasible plan which will enable me to inspect the observatories at any time throughout the year, whenever it may appear desirable or necessary. I would therefore suggest the appointment of a native inspector on Rs. 50 rising to Rs. 60 per mensem. It will be possible for this amount to obtain the services of a man who has been trained at the Seebpore or Roorkee Engineering College in the use of instruments, and has learnt to draw and chart neatly. He would supply a double want in the Bengal Office. Whenever the returns received indicated continued instrumental or observational defects at any station, he would be sent there to ascertain the causes of the errors, and thus enable me to remove them without unnecessary delay. When in Calcutta, he would be employed in preparing the various charts that

will be required to enable me to prepare the weekly reports. He would also be very useful during the first year of the extension in teaching the new observers of the Public Works Department their meteorological duties. As I do not propose to diminish my own work of inspection during the cold weather, which I consider indispensably necessary to the maintenance of the stations in a state of efficiency, it will also be necessary to provide for the travelling expenses of the native inspector. These, I estimate, will not exceed Rs. 400, which I would therefore ask Government to sanction in addition to

I have already stated that in future it appears to me desirable the rainfall returns should be considered and discussed in connection with the meteorological observations. The first essential for early publication of meteorological results is rapid transmission of the observations to the central office. Hence in all cases where it is possible, the 10 A.M. meteorological observations will be despatched to Calcutta by weather telegrams. At those observing stations where there is no telegraph office, the 10 A M. observations taken daily will be sent by the first dak after each observation to Calcutta by means of postal cards. The observations will be reduced and tabulat d in my office as they arrive. Of the 38 stations under the extended scheme, 29 can communicate by telegraph at the present time; and with the probable early extension of rail and telegraphic communication to Jessore, Burrisal, Mymensing, and Chutia Nagpore, the number will increase, so that in a few years a fairly complete daily weather report for the whole province may be prepared from the weather telegrams. The majority of the stations which can communicate with the central office by post only are in Bassern Bengal; and hence the information of that part of the province will be for some time more imperfect and behindhand than for the remainder of this province.

All rainfall-reporting stations will send in a daily return of rainfall by means of postal cards. They will also, in all cases, submit a weekly rainfall report by post-card as a check on the daily returns in which mistakes from carelesness or haste may occasionally arise, or which may, in a few cases, be lost in postal transmission.

Those sub-divisional stations which are at a greater distance than 48 hours dak from Calcutta will telegraph either directly or from the nearest telegraphic station (for which special arrangements in each case will be made), with the object of completing the daily returns included in the weekly rainfall report to be published in future in the Gazette.

It will there ore be seen that I propose to receive the various returns in all cases direct from the observing officers, and not, as at present, in the case of rainfall returns through the medium of a superior officer, as, for example, the Collector, the Civil Surgeon, &c. The delays in the submission of the rainfall returns under the present system are in some cases excessive, and are due to the transmission from the recording officers through other officials not directly interested in the rapid collection of the information. Of course, if it be desired, there is no reason why the Collectors, Civil Surgeons, &c., should not receive a copy of the rainfall returns sent in direct to me. If this part of the scheme be adopted—and it is the only means I can suggest for effecting the continuous rapid transmission of the necessary returns to my office—it would be very desirable that the Government of Bengal should issue a circular to the sub divisional and other rainfall-recording officers, requesting them to carry out fully and exactly the instructions I shall issue for the transmission of their rainfall returns, and if judged desirable and unobjectionable, permitting me to place myself in direct communication with them in order to call attention to probable errors of observations or delays in transmission.

From the 15th of May to the 15th of November, a period which includes the whole of the south-west monsoon rain in Bengal, it is proposed to publish a daily weather report containing the observations taken at 10 A.M. and transmitted by ordinary or urgent weather telegram to Calcutta, together with a short summary of the more prominent features of the weather, its deviation from the normal weather of that day by a comparison with the average pressure and temperature of the day, and the important changes of the previous 24 hours, with, by-and-bye, anticipations of the weather throughout the province during the next 24 hours.

This will be printed at the Secretariat Press by 6 p.M. each day, and sent by post to Government officers, district officers, and to certain officers of the Public Works Department. It is also proposed to publish weekly in the Gazette two meteorological returns. The first will give the averages or totals of the elements of meteorological observation at the 38 reporting stations, and the average rainfall of the districts, represented meteorologically by each station, together with the variations of the pressure, temperature, and rainfall from the means for the period. The second return will give the daily rainfall at all the sub-divisional stations for the preceding week, and from which the average rainfall of the districts given in the other return will be derived. A summary will also be given, generally, similar in character to the weekly agricultural weather report issued by the English Meteorological Office. In this the important features of the weather will be brought to notice, and the distribution of rainfall with respect to time and place, and its variation from the normal rainfall, will be fully worked out.

In addition to this, it is also proposed to publish in the Gazette, for more general reference, the usual monthly averages of the elements of meteorological observation for the 38 observing stations, and the average rainfall of each district for the month, together with a short summary, stating briefly the more marked peculiarities of the meteorology of the month. A return will also be published in the beginning of every month, giving the daily rainfall of the 162 sub-divisional stations for the preceding month. This will be to a large extent a reproduction of the weekly rainfall returns, but it will contain all returns not received in time to be included in the corresponding weekly reports. Also any errors which may be detected during the month in the printed weekly rainfall returns will be eliminated, so that the monthly rainfall return will be the final, complete and corrected publication of the rainfall for the period in question.

Forms embodying these objects have been drawn up and submitted to the Government of Bengal. They have been accepted after a few modifications, and will be adopted for the present, and until experience of the working of the new scheme shews what improvements it may be desirable to make in them.

The extensions which I proposed supplemented the existing arrangements, and I had consulted with the Meteorological Reporter to the Government of India, who approved generally of the scheme. As the Meteorological Department is on the Imperial Establishment, it was necessary for the Government of Bengal to submit the proposals to the Government of India for sanction, and to indicate the sources from which the additional expenditure was to be met. This was done in Mr. Secretary MacDonnell's letter No. 294-68Mis.F., dated the 29th January 1888, to the Government of India, Revenue and Agricultural Department, in which he stated that, "finding the present Bengal meteorological reports inadequate for the purpose of administration in this province, the Lieutenant-Governor called on Mr. Eliot to prepare and submit a scheme calculated to afford this Government that detailed information regarding the meteorological conditions of all parts of this province, of which it now feels the want. This scheme Mr. Eliot submits in the papers herewith forwarded, and the Lieutenant-Governor requests that His Excellency the Governor-General in Council may be moved to sanction the adoption experimentally of Mr. Eliot's proposals in this presidency. It will be observed that the proposals now submitted are purely supplementary of existing arrangements which they in no way modify, and may be at any time annulled without any disturbance of the latter. The entire cost of the improvements will fall on Provincial Revenues. I am to add that any conditions as to control, &c., the Government of India may think it, in the interests of the Imperial Meteorological Department, necessary to impose, will be readily accepted by this Government."

The Government of India replied that it was willing to accept these proposals, and sanctioned the scheme which had been prepared with so much care by the Meteorological Reporter to the Government of Bengal. It was further stated that "such control as may be necessary will, in the interests of the Imperial Meteorological Department, be most conveniently exercised by the Meteorological Reporter to the Government of India. In view of this object, the Government of India considers that the cost of the scheme should be treated as a contribution from Provincial to Imperial funds, and that provision for this additional expenditure should be made in the estimates of the Meteorological

gical Department of the Government of India, with effect from the 1st April 1883. Unless His Honor the Lieutenant-Governor has any objection to urge to this proposal, it will forthwith be carried into effect."

The extensions are now being effected as rapidly as circumstances will

permit, and will be fully stated in next year's Administration Report.

Second Class Observatories .- These are seven in number, of which five are situated in Bengal and the remaining two in Assam. The following table gives the Superintendents and observers at these observatories during the past year :-

Statious.	Superintendente,	Superin- tendent's allowance.	Observers.	Observer's allowance.	Assistant observers.	Assistant observer's allowance.
1 p.		Rs.		Rs.		
Sibsagar	Dr. R. M. Meiklejohn	30	Baboo Dandadhor Dutt Barua* (2.)	30	Baboo Rateneswar Gogoi.	10
Dhubri	" J. Mullane	30	Munshi Monirud- din Ahmed.	30	Munshi Kadimud- din (3). Munshi Kafait	10
Banki- pore.	" J. C. Shaw (4) " J. G. French (5)	30	Munshi Mohubbut Lal.	30	Ulla, Offg. Munshi Muddun mohun Lal.	10
Hazari-	" R. Cobb	30 {	Mahomed Ammeer	30	Nathoo Lal, (7)	10
ougn.			Nathoo Lal (8). Baboo Heralul Seal (10).	45	Dwarkanath (9) Nil.	* • •
Sangor	Nil		Mr. E. R. Swat- man (11).	***	Nil.	
Island.			Baboo Heralal Scal (12). Mr. A. J. Moth	•••	Nil.	***
			(13).		Nil. Mr. H. W. Alley	13
2-44-1-1			•		(14). Mr. S. Adams	
Cuttack	Nil		Mr. J. C. Smith†	32	(15). Mr. H. W. Alley	000
Chittagong	Nil		,, E. Pereira (17) P. O. Pereira		(16) Mr. J. Dias	13

- (1) From 1st April to 15th September 1882, and from 28th October 1882 to 31st March 1883.
  (2) Was in charge of the observatory from 16th September to 27th October 1882.
  (3) On leave from 22nd July to 9th September
- ,3) 1882.
- 1st April to 1st December 1882. 2nd December 1882 to 31st March 1883. 1st April to 27th June 1882 when he was dis-
- 1st April to 27th June 1882. 2sth June 1882 to 31st March 1883. Ditto ditto.
- (10) 1st April to 18th October 1882.
- (11) 19th October to 1st November 1882.
- (12) 2nd November 1882 to 20th January 1883
- 21st January to 31st March 1883. 1st April to 4th July 1882. 5th to 15th July 1882. (13)
- (15)
- 16th July 1882 to 31st March 1883. 1st April to 8th November 1882.
- 9th November 1882 to 31st March 1883. (18)

Five of these observatories are furnished with self-registering anemographs. There were one or two breaks in the working of these instruments during the year, which are detailed in the following table:-

BTAT	1001 A. TONIA		Date of commencement of work.		Periods during which instrument was out of order during 1882-83.
Dhubri Hazaribagh	***	994	18th March 1882 15th April 1880	***	From 17 hours 30th April to 17 hours 31st May 1882. Seventeen hours 30th November to 10th hours 15th December 1882.
Chittagong Saugor Island Cuttack	•••	•••	20th June 1879 9th February 1880 11th April 1879	***	1st April to 8th July 1882. 9th January to 22nd February 1883.

Three of these observatories, viz. Bankipore, Hazaribagh, and Cuttack, were visited during the cold weather.

Received special allowance of Rs. 5 per month for good services.
 Received special allowance of Rs. 10 per month for good services.

Hazaribagh was reported on unfavourably last year. This, which was formerly one of the most satisfactory of the Bengal observing stations, had fallen off solely in consequence of the indolence and carelessness of the observer. He was fortunately detected by the Superintendent in recording and sending to the Meteorological Office inaccurate and false statements, and was consequently dismissed from Government employment. The second observer was then appointed first observer, and appears to have done his work satisfactorily throughout the past year. The observatory was inspected on the 8th December 1882. No change has been made in the position of the shed during the past year 1882-83, or of the instruments since my last visit in December 1881. The shed was clean and in good order. The anemograph tower required some slight repairs to make it watertight. These have since been made.

The instruments were generally clean and in proper working order. The only instruments which were not perfectly satisfactory were the wet and grass minima thermometers. In both of these the columns were badly broken. The instruments had, I was informed, given much trouble in this respect for some time previous. They were ordered to be replaced by new instruments. The anemograph was not working when I inspected the observatory, in consequence of the clock requiring cleaning. I found, however, that this instrument had been sadly neglected by the previous observer, and that it had not been in proper working condition for some months in consequence of two defects, both affecting the wind direction. The instrument had evidently not been cleaned or oiled for months. The gearing of the wind vane had consequently become rusted to such an extent as to make the vane immovable under the action of any wind of ordinary strength. The chain connecting it with the recording part of the instrument had also lengthened slightly, and was badly adjusted, and too slack to work properly. These defects were repaired, and the observer taught how to oil it and to take it to pieces. Full instructions were also given to him to oil and clean it at regular intervals. The defective condition of the anemograph was, I found, mainly, if not entirely, due to the neglect and indolence of the previous observer. The observer and assistant observer read the instruments carefully and accurately. The present observer is intelligent, takes much interest in his work, and sends in his returns regularly. Hazaribagh thus promises to regain its former character as an observing station.

The Bankipore observatory was inspected on the 20th and 21st of December. No change has been made in the position of the instruments since Mr. Pedler's visit. The shed is in good order and has been protected by a fence. Strong ladders have been built to give ready access to the anemometer and wind vane on the roof of the building. The barometer was examined, and a long series of comparisons made by the observer and myself with two secondary standard barometers. The comparison seemed to indicate that the instrument has a variable index error, and that the amount of its error was on the average of the observations made during my visit somewhat less than that assigned to it by the original comparison at Alipore. It was therefore replaced by one of the standard instruments, and ordered to be returned to Calcutta for a careful examination and redetermination of its index error. All the instruments were, with the exception of the barometer, in good order, and very This observatory has improved very much since Mr. Pedler's visit, and

is now in a satisfactory state.

The Cuttack observatory was inspected on the 11th of January. This observatory has been under the charge of Mr. Smith, Telegraph Master, for the past 11 years. I found the observatory in the same thoroughly satisfactory

condition as on my last visit two years previously.

The Cuttack, Dhubri, and Sauger Island observatories are the best of the second class observatories. I was unable to visit Dhubri during the year, but judging from the accuracy of the observations and the neatness of the returns, I am confident that it has improved considerably during the past year. The observer has, moreover, on more than one occasion, sent valuable series of observations taken during storms. As he has been observer for many years, and continues to shew increasing interest in his work, I have recommended him for the higher personal allowance of Rs. 10. Sibsaugor continues to work satisfactorily. Patna and Hazaribagh have both improved greatly, and may be considered as having regained their former character. observatories are thus generally in a satisfactory condition and the observers are performing their duties accurately and honestly.

Eleven of these are maintained solely by Government, one (Durbhunga) is aupported by the Rajah of Durbhunga, and another (Demaglri) is a voluntary observatory established under rules sanctioned by the Government of

Third class Observatories .- These were thirteen in number at the end of the year. Ten of them are in Bengal, one (Akyab) in Burma, and two (Silchar and Tura) in Assam. The Tura observatory was established during the year at the suggestion of the Assam Government, and promises to give useful information for the eastern half of the Garo Hill district.

The following table gives the list of the third class observatories, with the Superintendents and observers of each, during the year 1882-83:-

Third class Observatories.

Brations,	Superintendente,	Observers.	Observer's
			Rs.
Darjeeling, St. Paul's School.	R. Carter, Esq., Rector, St. Paul's School.	Mr. W. Moore	25
Purneah	Dr. Picachy {	Baboo Russick Lal Bose (1)  Rajanikanta Chackravarti (2) Russick Lal Bose (3)	15
Ourbhungs	Baboo Gopal Chandra Bose (6) Dr. W. A. Gilligan (7)	" Jogin Chandra Banerjee."	*****
lya Berhampore	B. M. Shircore	,, Nowrangee Lal ,, Mohendra Nath Roy†	15 15
Burdwan	,, J. O'Brien (8) } H. B. Purves (9) }	" Mokhoda Prosad Chowdhurgt	15
essoro	" D. W. D. Commins	Poresh Nath Chowdhury	15
Dacca	Nil • }	Mr. E. D. Shave (18)	25‡ 15
Bilchar	" J. J. Monteith	Baboo Romes Chandra Bhadra	16
Demagiri	Nil}	, Nobin Chandra Ghose (10) Bhagarath Barmah (11) Suriya Kumar Ghose (12)	Nil.
False Point	Nil	Vir. E. Workman (13) J. M. Bannett (14)	25 25
kyab	Nil	P. G. Pote (15)	15° 15
Turn	Civil Medical Officer	,, R. J. Keys (17)	15

- 1st April to 13th December 1882. 14th December 1882 to 6th March 1883. 7th March to 16th March 1893.
- 17th March to 31st March 1883, 1st April to 24th October 1882. 25th October 1882 to 31st March 1888.
- 1st April to 9th December 1882. 10th December 1882 to 11th January 1883.

- 1st to 3rd April 1882.
  4th to 18th April 1882, and 4th June to 8th September 1882.
  9th September 1882 to 15th February 1883, and 22nd February to 31st March 1883.
- Pebruary to 21st February 1883.

  18th May to 3rd June 1882, and 16th
  February to 21st February 1883.

  1st April to 28th December 1882.

  2sth December 1882 to 31st March 1883.
- (19)

Becaired special allowance of Rs. 8 per month.

There differences in 10 per month.

From 28th Becember 1888.

I was able to visit the whole of the third class observatories during the College cold-weather vacations, with the exception of Jessore, Silchar, and Akyab. No change was made during the past year in the character of the observations or the condition of the observatories. My opinion of them is unchanged. Some of them are quite equal to the second class observatories as regards the accuracy and value of their observations. In others occasional carelessness and neglect of the instructions laid down in the Vade Mecum diminish very considerably the value of the observations, and introduce an element of doubt into the results of their work.

The following accounts of the observatories which were visited during the

cold weather are taken from my inspection reports:-

"I visited the Darjeeling observatory on the 16th and 17th of November The shed was in capital condition; the instruments clean and in good order,

and properly placed. The Casella's anemograph had been properly placed in position, before my visit in November. The shed in which it is placed is on a fine open site on the top of a hill above St. Paul's School. When I was there the air was perfectly calm, so that I had no opportunity of seeing the instrument working under ordinary conditions. I examined it carefully and made several changes. It has been working since, and the observer, Mr. Moore, has spent much time, labour, and ingenuity in endeavouring to make it work successfully, but the results are not altogether satisfactory. The traces received lately are sufficiently distinct to enable them to be used for the determination of the elements of wind observation. So far as I can judge, the instrument is not a good one, and I should prefer to see it replaced by a Beckley's anemograph, which gives a continuous record. Experience appears to shew

that the Beckley's is easier to work and less liable to derangement.

"The Purneah observatory was inspected on the 23rd, 24th, and 25th of December 1882. The shed is on the same site as it occupied on my last visit two years ago. I found that the foundations of a house for the jailor had been laid within a few feet of the observatory, and the building itself would be shortly erected. It was therefore necessary to give orders for the early removal of the observatory. A suitable site was selected where the conditions of exposure are almost identical with those of the present observatory. The shed itself was in fair order. No repairs had been made for some time in view of its removal to another site. The thermometers were all clean and in good order. The barometer was in the same room as two years ago. As the light in it is bad, I removed the barometer to an adjacent room at the same level, and where it is in good light. The barometer was carefully compared at the dak bungalow by myself, and its index error was ascertained to be The wind vane and anemometer are well placed. They were slightly stiff in consequence of not being oiled frequently enough. The anemometer was carefully oiled and cleaned, and the observer instructed how to keep it in proper condition. He read the anemometer somewhat imperfectly. This was partly due to his having overlooked the instructions in the Vade Mecum. He learnt quickly, and I hope the anometer observations at this station will in future be exact. The observer is intelligent and punctual in his work, in which he appears to take much interest. The observatory, on the whole, is in a satisfactory condition.

"Durbhunga was inspected on the 20th and 21st of December 1882. I arrived at the observatory at 4-7 P.M. by the dispensary clock, and found the observer there. On enquiring about the 4 P.M. observations, I was shewn the

following entries for that day :-

			2011.	16h.	18h.
Barometer			80.130	29.030	
Attached therm	ometer		*66 5	71	
Dry bulb			C7	74	
Wet ,,	4 8 9		62	65	
Dry max.			*****	entre di	74.8
", miu.			54.5	* * * * * *	
Wet ,,		u 0 1	53.5	***	
Grass .,	884		41.5	******	
Sun max.				****	118
Anemometer	4 0 0		248.4	265.3	
Wind direction	4.0.4		22	22	

The observer was then asked to read the barometer, and stated that it was 29.980. I read it myself and found it to be 29.968. The reading entered in the form B, even if corrected to 30.030, was thus erroncous. The observer then endeavoured to excuse himself by asserting that he had been at the Magistrate's court and that an assistant had taken the readings. As it was unnecessary for me to ascertain more than I did (viz. that the observations at Durbhunga on this day, and probably, as indicated by the returns, for some time previous, had been taken in an exceedingly careless and irregular manner, and that little or no attention has been paid to the various instructions and orders issued from time to time for his guidance), I made no attempt to verify his statements. No excuse whatever can be admitted in extenuation of the offence of entering the observations as having been taken at the exact times noted, when, in reality, they have been knowingly taken at

some other entirely different hour. In addition to the evident mistakes in the 4 P.M. readings, observations purporting to be taken at 6 P.M. had been taken at or before 4 P.M.

The condition of the observatory indicated great carelessness on the part of the observer. The thermometers were in very fair order, except that they were generally somewhat dirty. The minimum wet bulb and ordinary wet

bulb were covered with a thickish encrustation.

The wind vane worked slowly and heavily. This was accounted for by the fact that it had not been oiled for some months. The anemometer was excessively dirty, and was covered with dust inside and outside. No oil had been given to it for months. In consequence of the dust and want of oil, the instrument moved with much friction. It is evident that the anemometer observa-tions have been of little value for some time past. The Durbhunga observer was informed that carelessness in observation, or laxity with regard to hours of observations, once clearly detected in an observer, throws a doubt for a long time over future observations, and that it would therefore take long for him to thoroughly re-establish a character for accurate work; and was informed that he would probably lose his personal allowance of Rs. 5 per mensem. referred the matter to Mr. Blanford, explaining to him the peculiar condition of the observatory and the promise of the observer to do good honest work in future. He requested me to fine the observer ten rupees as mark of his serious displeasure, and to warn him that the detection of my similar faults in the future will be certainly followed by the withdrawal of the personal

"Gya was inspected on the 11th and 12th of December 1882. No change has been made in the position of the instruments since my last visit, and the shed was in perfect order. The barometer was carefully examined, as the barometric observations had been unsatisfactory for some time. The readings for some months, as indicated by the observations at the neighbouring stations, had been much too high. A long and careful comparison made by myself at the dak bungalow proved that no change had taken place in the index error of the instrument since its issue to Gya. I, however, found, when the observer was asked to take a reading of the instrument, that he immersed the fiducial point well into the mercury in the cistern, instead of setting it so as to touch exactly the mercurial surface. This error at once explained the high readings at Gya. I spent several hours in endeavouring to teach him to adjust the level of the mercury to the fiducial point, and in reading the instrument with fair results. The observer attributes his error in this respect, chiefly to failing sight. This was, however, not confirmed by the Civil Surgeon. It is therefore more probably due to carelessness, and he was warned on this point to be much more careful in future. The instruments were all in good order. The observer, I found, read the anemometer very imperfectly, and it was necessary to spend some time in training him to read it correctly. The condition of the Gya observatory, in consequence of these imperfections on the part of the observer, has been for some time far from satisfactory.

"Berhampore was inspected on the 28th of December 1882. The instruments have been housed in a new shed since my last visit. The shed is very neatly built and is in capital condition; the instruments were clean and in thoroughly good working order. This observatory is in almost every respect one of the best kept in Bengal, and reflects great credit on the observer, who is, I have every reason to believe, as accurate in his observations as he is

interested in the neat appearance of his observatory.

"Burdwan was inspected on the 29th December. I found both the shed and instruments in perfect order. The observatory is in thoroughly satisfactory condition and continues to maintain its high character."

Dacea was inspected at the end of November. The shed is situated in the compound of the Telegraph Office in a fairly exposed position. It was in good condition, and the instruments clean and in excellent order. This observatory was last visited by Mr. Pedler in December 1878, when it was favourably reported upon.

The observatory at False Point has been located at the Jumboo Telegraph Office for the past four years. This office was closed on the 25th of April 1842. No previous intimation was given to me of this change. The observations

at False Point were then suddenly broken off, and I was unable for some time to make any arrangement, for the re-establishment of the observatory. August the light-house was connected by telephone with Cuttack. enabled me to re-establish the observatory under its former conditions before its removal to Jumboo, and at the same time to preserve the advantage of telegraphic communication with Calcutta. It was not considered advisable to erect a shed until the cold weather. Mr. Workman, light-house keeper, took the greatest interest in its re-establishment at the light-house. He procured the instruments from Jumboo and placed the barometer in the lower room of the light-house and the thermometers temporarily in a verandah facing the north, and forwarded daily telegrams of the height of the barometer, wind, direction and force, rainfall, &c., from the 7th of August. I visited False Point in January, and in conjunction with Mr. Workman selected a suitable site for the new shed and for a pillar, on which to erect the wind vane and anemometer. This station is a very important one in connection with the Storm Signal Office, and it is to be regretted that the telephonic mode of communication usually fails during stormy weather. Mr. Workman informs me that he has frequently spent a couple of hours, shouting himself hoarse, in endeavouring to communicate with Cuttack during windy and stormy weather. If the Telegraph Department could arrange to improve the communications between the light-house and Hookeytollah or Cuttack, the False Point observatory would be, under its present conditions, one of the most satisfactory and important of my observatories.

Of the third class observatories Berhampore, Burdwan, Dacca, Darjeeling, and False Point take first rank for the accuracy and value of their observations. Purneal is now a fairly satisfactory observatory. Silchar and Jessore I was unable to visit during the past year, and can only judge of them by their returns. So far as they indicate, these two observatories have improved during the year, more especially Jessore, the returns from which have been nearly

prepared and sent in with commendable regularity.

Durbhanga and Gya have been the most unsatisfactory of my stations during the past year. At Durbhanga the observer had allowed himself to fall into very careless habits and methods of observations, and I hope after the leniency shown to him he will use every effort during the present year to submit accurate observations and keep his instruments in such a condition as

to be fit for inspection at any moment.

Akyab has been also a somewhat unsatisfactory station during the past year. I recorded my opinion in the Administration Report for 1881-82 that it was not quite satisfactory, as frequent mistakes were made in the transmission of weather telegrams. It is an important station from its position on the Arracan coast. I regret to have again to record that numerous mistakes have been made in the preparation of the weather telegrams, due either to haste or carelessness. In the month of August last ten of the thirty telegrams despatched were erroneous in one or more particulars. The ordinary returns also frequently c ntain errors, and it is only too probable that the carelessness shewn in the preparation of the telegrams and ordinary returns extends to the work of observation itself. It contrasts most unfavourably in these respects with Cuttack, Dacca, and Saugor Island, at all of which Telegraph Masters are observers.

Bainfall-recording stations.—Regular rainfall returns have been received during the past year from 164 sub-divisional stations. During the past year two stations—Segowlie and Baripore—have ceased to send in returns, as they are no longer sub-divisions; on the other hand rainfall returns were received during a part of the year from three new stations—Netrokona, Banki, and Hookey-tollah (False Point). The number of stations submitting rainfall returns at the end of the official year was 162.

These returns were submitted in the great majority of cases punctually, and the monthly return of rainfall throughout the provinces for each month of the past year, prepared from these returns, was published in the Gazette on the

third or fourth week of the ensuing month.

Instruments.—The two following tables show the number and kind of instruments that have been broken or lost or rendered unserviceable at the Bengal observatories during the year 1882-88, and of the instruments supplied

to the observatories to replace broken, deteriorated, or untrustworthy instru-

Return of Instruments broken or otherwise injured at the Observatories in Bengal and Assam,

歪								ORO-		Till	HRMO- PER.	Tn	ETER.							
Ė	6	TAT	som.			Harometer.	Dry.	Wet.	Dry maximum.	Dry.	Wet.	Solar.	Grave,	Anemometer.	Wind vanc.	Rain-gauge,	Measure plass.	Len.	Clork,	Gand of pass
																	1			1
Patus		847	940	***		***	***	***	***		***	***	***	V 4 to		***	***	***		(c)
Cuttack	2.0	4.2.4	***	4 0 1	***	***	***	191	010	1	100	***	174	111	***	***		***	***	
hittagons		100			0.04	***	0.01	***	***		441		9.6.6			* 1.0	***	114		
augor Isli	uud				0.04	100	100	7.44		111	1. VI.	+ + + +	1 22	(0) 1	110	100	***		***	
lazaribagi	3	***				242		***	***	4 9 0	(a1)1	***	$\{a^i\}1$	***	141	***	111	***		
urneal		***	***	b + 0	***	***	120			101	0 = 0	+ 1.0	100	100		47.8	***	***		
urdwan			0 + 0		100		***	***	4.01	111	101			101	***	4.0.0	***	***		1
berhampot	10	144	***		***	***	2 4 4	141	400	114	***	(6) 1	(a) 2	10.1	124			4 - 1	***	
t. I'kui'n	Bohoo	il, Di	arjoeling	***	100			***	100	111	***	100	(d) 1		***	144	***		494	
CHROLL			100	***		0.13	***	6103	144	1 - 0		144	***		***	***	***	***	111	
alse Poin	t.	***	1.64		***	***	110	***	404	1		***	***	151	***	4 * *	***		***	
Danca			100		***		111	4 -		(a) 1			111	(a) 1			441			1 .
Jurbhung	1	***	***	***	***	0.04	411		3.4	***	111	* * *		(a) 1	***	+ 2 4	011	***		1
ya		494					0 4 4		4.47	1	1	1111	(d) 1	***	***	***	400	***	***	1 .
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opalpore		1.0.0			***	1884	***	***	***	140	100	***	100	111	***		***	***	***	
lbengor		100	1.69		8.00	***	4 * 1	111	0.0.0		***			***	***	***	9 * *	***	***	1 .
hubri	***		100			100	***			***	111	***	(e) 1	*110		***	111	***	***	
nchar	801			100	***	000	***	***	000	1 6.1	111	***		***	***	47.6	***	***		1 .
0.111			***			401	***	***	***			***	* 4.9	***	***	***	***			1 .
emagiri	***		***	***		***	410	***		4.1.7	144	400	***	0.00	441	***	***		**	1 .
		-			of orde					1		(c) Br	roken li	n trans	t.					

Return of Instrument, &c., issued to the Observatories in Bengal and Assam in 1882-83.

-								TER.		THE	IMUM UMO- TER.	THE	ATION RMO- TER.				١.			
i	8/	TATI	ONE.			Barometer,	Dry.	Wet.	Dry maximum.	Dry.	Wet,	wohr.	Griss.	Anemometer.	Wind vane.	Rain-gange.	Menute glass	Lens.	Clock.	Rand-slass
																	1			
	100		***			11			*** 4		***	1111	244		**	***	***	***	144	(4)
		200		4 4 9	0.17				***	4.63	***	***	***	***	***	44.0	1.00	400	***	
hittagong		0.6.0	0.00	0.00	444		***	1.0.4	000	***	***	**	111	(0) 1	***	4.0.0	4.6.4	17.1	711	
augor Islai	nd	4 6 9	0.00		0.1.1	114	14	11	111	111	21	***	(c) i				***	***		1
lazaribagh		***	4 # 6	* = *	1.6.0	***		-	1			***			***		***		4.4.	1
umicah .	5.0		* * *		***	***	***	***	100	1	***		***	100	***	***		1	* + 4	1 11
		000	***	***	***	141	***	***	***	***	***	1	1	100						1
erhampore	haal	Day	dooling	* 1	***	(8) 24	***	***	144		***	***		111		***			***	1
					***	111	***	***	***	111		***	100	110		***		***	***	
also Point	8.0	000			***	(a) 21				***	***	***	111		1	1		101	111	
			0 0 4	401			***		.,,	1				(c) 1	,,,	***	***	1		
urbhanga	• •		1.00	111	***		141							(c) 1		***			1	
			***	***		(a) 1						**	***			447		1		1
	4.		***				144		***	1	1	1	***	111	***	1	1	100	***	
opalpore .		***	***	***			111	***	10	10	404	1	4.11	844	***	***	***	***	1	
mbarron.			***	***	***			***	102		***	*	110		***	447	0.0	443	***	1
			144	410		***			441	111	488		***	4	***	648				
			***	***	411				***	***	***					141		4.64		1
1		***	***	***	411		***						***				***		***	1
ra (Garo	Hills		***	000			(6) 1	(6) 1	(6) 1	(6) 1	148			411	(6) 1	**	***	(6) 1	***	
Alor statio	ma 6 m	-6			***			***	401	***		***		***			- 6		1.61	

Comparatively few instruments were broken during the year. At Gya the terrestrial radiation thermometer was broken to pieces by a stone thrown from a road outside the compound. An exposed grass radiation thermometer disappeared at Dhubri under circumstances which indicated that it had been probably stolen by coolies travelling up to the Assam tea gardens, a depôt for whom is within a few yards from the observatory. The instrument which was broken at Akyab is reported to have fallen by accident to the ground when it was being examined by the observer.

During my tour of inspection I condomned several instruments, more especially alcohol minimum thermometers, which frequently deteriorate rapidly in India, and ordered them to be replaced by new instruments. This, for example, explains the issue of thermometers to Hazaribagh, Berhampore, Patna,

and False Point. On the whole the instruments appear to have been carefully

looked after during the past year.

A third table is added (for the first time) showing the instruments that have been returned by the several observatories for various reasons and made over to the store of the Meteorological Reporter to the Government of India.

Return of Instruments, &c., returned to store of the Meteorological Office, India, during 1882-83.

				HYG		9.	THE	mum RMO- PBR.	THE	ATION RMO- PKM.									thermometer	100
STATIONS			Baronseter.	Dry.	Wet.	Dry maximum.	Dry.	Wet.	Soiar.	Grace.	Anemometer.	Wind rane.	Rain-game.	Measure glass.	Lens	Clock,	Pad.	Rand plant.	Standard thor	Thermometer
atna			1.	10	20	10	1"	10	10		20		***				1(4)	100	104	10
ittiick		***					111					010	200	001			***		200 00	
uttageng		***	***			111				111	444	110	0.00	44.	000		***	10	***	
ugor Island		*** 1	***		404	***			***		111	100	***	905	100	1(4)	1(a)	1.	east.	. 242
azaribach		***	***	10	10	10	10	2º(c)	041	1(c)	0.04	414	100			111	***	100	100	440
irneah		***		1"	***	10	1(c)	9.04			984	240	210		101		000		441	***
ardwan		***		***	***		***	***			444	000	010	***			***	***		100
Paul's Schoo		Dar-		***	441	***	***		1(d)	1(c)	***	***	***	**	127	***	***	***	***	946
reling		***	1.	***	117	***		***	494	***	***	111	***	***		100	***	***	100	177
elegraph Office	0,	Dar-							1	1 1								01. 1	1	
jeeling .	0.0	044 6	84	10	J.	010	44.7	***	10	004	111	611		***	***		419	910	10	190
asoro .				***	0.11	111	2.		1(0)	888	***	110	1(a)		***		111	***	*** 1	1(0
ise Point .			10	***	007			1	111		485	80	16	940	411	110	110	400	***	1
000			***	***	***	***	1.				1 *	***					141		***	**
				***	***	***	104	***	111	***	(a)	000	***		100	4 0 7	414	0.00	***	0.0
ii.		***	1.	***	011	941		241	141	***		4.01				0.00	0.64	500	107	4.0
yab	d o		***	4.0.4	0.1.0		1°		1.1.2		100	***		***	***		- 04	0.00	444	
palpore .		***		111	***	900		***	111	***		***	***			100	***	***	814	
and the same of the		401		***	***	***	100	***	111	1	* * *	***	000	111			***	141	10.5	
MIN FOR	0.1	1				***	411			111	***	4++	***	***		110	141	100		1
	0.0	200	400		710		111			441	444	***	444	111				0.00	101	00
andra n	11			***	***	000	491	***	11(0)	000		000		000		+41		4.6.7	***	1
2 200		***		***	***	040	***	***	-	444	114	241	***	0.6.4		1.1.0	***		4.04	

• Sarvinoshio.

Unserviceable and broken.

(d) Cracked.

No change was made during the year in the ordinary routine of the office. The following returns have been prepared during the year for publication in the Calcutta Gazette:—

1st.—Monthly summaries of the meteorological observations taken at

twenty observatories in Bengal and Assam.

2nd.—Monthly statements of rainfall at 162 sub-divisional and other stations in Bengal, and in the same form as last year.

3rd.—A table shewing the monthly and total rainfall for the year 1882 at 162 stations in Bengal.

4th.—A table giving the average monthly and annual rainfall at 156 stations in Bengal, based on the rainfall returns up to 31st December 1882.

5th.—Comparison rainfall table for the year 1882, shewing the monthly and total variation of the rainfall of 1882 at 162 stations, from the mean rainfall given in the preceding table.

My time has been more fully occupied than usual during the past year, and I have thus had less leisure to devote to meteorological investigation apart

from the ordinary routine of my work.

I have nearly finished an analysis of the storm of October 1882, which possessed several features of interest. It occurred during the October transition period when there is a tendency for any vortex that is formed in the Bay to develop into an intense and severe cyclone. Although it formed at the most dangerous period during pre-existing conditions, which are known to be favourable to cyclonic formation of the Bay, some condition or action was absent, or very feebly developed, which prevented the storm acquiring great intensity. It was due to, and accompanied a large shallow depression with, moderately high gradients on the outskirts of the storm area. The aqueous vapour condensation, judging from the appearance of the sky during the storm, seems also to have taken place at a comparatively low level. It was economically chiefly remarkable as giving the heaviest and most general burst of rainfall to Bengal during the south-west mensoon of 1882.

<sup>(</sup>b) A strument not issued from our store, but was found in the observatory store on inspection and brought down here.

In several respects it resembled the storm of September 1878, the account of which I drew up last year, and which was published during the present year as the first paper in the second volume of the meteorological memoirs.

I also took up for discussion all the storms which occurred in the Bay of Bengal during the period 1875 to 1880, of which there are records in the office. with a view to determine the relations between storm occurrence in the Bay and the general character of the monsoon, and also, if possible, the distribution of south-west monsoon storms in the Bay with respect to time and place.

This I find will take longer to work out than I originally expected, but I

hope to finish it in the course of the present year.

Storm signals. - In my last year's report I stated that I had submitted to the Government of Bengal proposals for the extension of the system of storm signals for warning the Port of Calcutta of the approach of cyclones. The original object of this part of the work of the Bengal Reporter was to forewarn the port of the approach of severe cyclones, such for example as those of 1864 and 1867, in order that captains of vessels, &c., might prepare for the advent of the attendant destructive storm-wave. Recent experience has, however, shown that, although severe cyclones accompanied by storm-waves are of comparatively rare occurrence at the head of the Bay, cyclonic storms of limited extent and intensity are, on the other hand, frequently formed during the rains, and are a source of danger to shipping entering or leaving the mouth of the river. The storm signals hitherto employed were only intended to give warning of the formation and approach of storms of the first kind; hence it became necessary, if the Department was to give warning of the advance of storms dangerous to shipping in or near the mouth of the river, as well as to shipping in the Port, to extend or modify the system of signals. This I did with the assistance of Mr. Elson, Master Pilot, in such a way as not only to differentiate between the intense cyclones of the transition periods, and the feebler cyclonic storms of the rains, but also to indicate roughly what part of the Bengal coast they are approaching and likely to cross. The Government of Bengal sanctioned the proposed signals on the 5th of August 1882.

The adoption of the new system of storm signals was duly notified in the Calcutta Gazette on the 9th August 1882. They were brought into operation almost immediately afterwards, and as soon as the new signals could be prepared and despatched to the signal stations. Signals giving warning of the existence of any dangerous storm near the head of the Bay will in future be hoisted for the information of the pilots, captains of vessels, &c., at Saugor Island, Mud Point, and Diamond Harbour. Signals will in future be hoisted in Calcutta only before the approach of a severe cyclone with a storm-wave of sufficient magnitude to be probably dangerous and destructive to shipping in the port. The storm signals in the port of Calcutta will be hoisted in the

following positions:-

1st.—On the Port Commissioners' office.

2nd.—On a flagstaff at Seebpore, nearly opposite to the Fort.

3rd.—On the yardarm of a flagstaff near the Government Dockyard, Kidderpore.

No severe cyclone occurred in the Bay during the year 1882. cyclonic vortices formed near the head of the Bay, and advanced across the Bengal or Orissa coast into the interior. These were-

1st .- Storm of June 8th to 17th, which ushered in the south-west monsoon. The centre crossed the Orissa coast on the 10th.

2nd.—Storm of 16th to 23rd of July. This crossed the Bengal coast near the mouth of the Hooghly on the 19th.

3rd.—Storm of 5th to the 14th of September, which crossed the Orissa coast between False Point and Balasore on the 7th.

Storm of the 14th to 19th of September, which advanced across the Orissa coast on the 16th.

Storm of the 26th of September to the 3rd of October. This

crossed the Orissa coast on the 28th.

Storm of the 12th to 17th of October, which formed near the coast of the Northern Circars, crossed the Ganjam and Orissa coast, probably between Gopalpore and Pooree early on the morning of the 15th, and then proceeded northwards into Northern Bengal.

Four of these storms, viz. 2, 4, and 5, although accompanied with moderately strong winds and a rough sea, did not appear to be of sufficient intensity to justify the hoisting of the storm signals. Warning singals were hoisted for storms Nos. 3 and 6. On the approach of the 3rd storm bad weather signal No. 7 was hoisted on the 7th September at 12-30 p.m., intimating that a small cyclonic storm was advaning to the east of the Hooghly. This was changed on the receipt of further information to storm signal No. 8 at 7-30 a.m. of the 8th. The signals were taken down at 2 p.m. of the 9th. During the sixth storm, signal No. 5, intimating the existence of a storm which would cross the west coast south of False Point was hoisted at 2 p.m. of the 14th; the signals were taken down at noon of the 16th.

Daily Weather Reports.—These have been published during the past year in the same form as during the previous. They were supplied to 27 subscribers and to 28 Government officials at the commencement of the official year, and to 29 subscribers and 30 Government officials at the end of the year. The receipts during the year from subscriptions have covered the cost of printing and distributing the reports. There was a small balance of Rs. 105 at the end of the year, which was kept in hand in order to meet any charges for repairs to the lithographic presses.

The report has hitherto been published on an awkward, large-sized sheet of inferior paper which has detracted considerably from its appearance. By reducing the size of the form considerably, I have been able to obtain paper of much better quality for the report and chart. Through the courtesy of the Superintendent of the Lithographic Department of the T. G. Survey, I was supplied with a neat chart and form from which to prepare the daily reports. The report will thus in future (from May 15th) be issued in a neater and more compact form. Although the number of subscribers has not increased much, I believe the report and chart are found to be of use. I should be glad to see the number of subscribers increased, so that the subscription could be reduced from Rs. 2 per mensem to Rs. 12 per annum.

Marine Meteorology. - A fair amount of work has been done in this during the past year. The Government of India sanctioned additions to the previous office establishment with effect from the 1st of April. The work proposed to be done under this head consisted of two parts. The first is the discussion of the observations taken on board vessels navigating the Indian seas, collected by the Board of Trade in England some years ago, and made over to the Indian Meteorological Office; and the preparation of charts embodying the information given by these observations of the pressure, winds, currents, &c., in the Bay of Bengal and Arabian Sea. During the early part of the year the barometric observations were taken up with a view to determine the amount and character of the diurnal oscillation in the Bay. The curves have been worked out for all the months, excepting December, and are ready for publication whenever it may be considered desirable to do so. Shortly after Mr. Dallas, Scientific Assistant, come down to Calcutta from Simla, he took over the work of tabulating and charting the data. Four additional clerks were engaged. The barometric and wind data for January were gone through and tabulated, and the results charted. The second branch of the work of the Department is the collection of current meteorological data of the Bay of Bengal from every possible available source. Forms were prepared in accordance with suggestions made by the Port Officer. A supply of these is included in the papers handed by all pilots to the captains of vessels entering the river on taking piloting charge. A large number of captains have complied with the request of the Department to furnish extracts of meteorological data in these logs for the Bay of Bengal and Indian Sea. Three hundred and forty-five sets of returns were filled up and sent in to this office. Many of these are of great value, and shew that accurate meteorological observations are taken on board a fair proportion of the ships navigating the Bay of Bengal. The information contained in these has been extracted and entered in books for permanent record in such a way that the information for any one day is collected together. The information they give is also being added to the daily weather charts for India, prepared in the India Meteorological Office. I have not had time to go through this information as fully as I should have wished, but the extracts I have considered indicate clearly the general truth of what I had previously

surmised, viz. that the weather in the whole extent of the Bay, excluding the Andaman sea, is fairly indicated by the observations taken at the coast stations, and that the progress of every important storm may be traced and followed with more or less exactness almost from its origin, from the shore observations.

In addition to this information, observations with verified instruments have been taken at 10 A.M. and 4 P.M. on board the light vessels near the mouth of the Hooghly. The following gives the dates from which returns have been received during the past year:—

Meteor from May 1882. Star ,, June ,, Comet ,, August ,. Mermaid ,, November ,,

The observations taken on board these vessels are, I have every reason to believe, after careful examination, to be accurate and trustworthy. They are very valuable as extending our knowledge of the meteorology of this part of India to a distance of 40 miles beyond the coast seawards.

#### FINANCE.

The following statement gives the total cost to the State of the Bengal Meteorological Department during the year 1882-83:—

- Topicon - opicion autorio			Rs.	A .	P.	$\mathbf{R}$		A. P.
Meteorological Reporter			8,600	0	0	16	9+	m, F.
Office establishment			2,764		10			
Office rent			900		0			
	ere*		2,325	0	0			
Observers { Telegraph Maste Native observers	3		3,480		0			
Messengers' allowances			78	0	0			
Superintendent's allowances			1,440	0	0			
					_	14,58	37	1 10
	Cen	tral O	fice.			,		
		Rs.	Α.	P.		Re.	Α.	P
Contingent and office furniture		571		9		2000	-	
Postage	***	507	9	0				
Telegraphic messages	•••	9,646		0				
Travelling allowances		926		0				
		_		-		11,651	11	9
	Ob	servator	ries.					
Building and repairs		473	6	9				
Contingent		83	9	0				
***						556	15	9
GRAND TOTAL						26,795	13	4
Chang Avian						20,100	10	

The total is Rs. 2,155 in excess of last year. This is, however, due almost entirely to increase in the nominal charges for telegraphic messages and postage. The weather telegrams for the use of the Calcutta Storm Signal Service were despatched throughout the year as "urgent." This caused the large increment under that head. The increased correspondence and circulation of the Bay of Bengal daily weather reports to Government officials explans the increment under the head "Postage." Building and repairs were well within the budget allowance in consequence mainly of the large expenditure under this head last year.

The statement does not include the cost of instruments supplied to the observatories by the Indian Meteorological Department, nor does it include the cost of stationery supplied to the central office, or of printing the various forms required by the office, nor of printing the meteorological returns published in the Gazette or otherwise.

JOHN ELIOT, M.A., F.M.S.,

METEOROLOGICAL OFFCE, BENGAL, The 80th May 1883. Meteorological Reporter to the Government of Bengal.

#### RETURNS OF JOINT STOCK COMPANIES FOR 1882-83.

#### No. I.

Statement showing the name and number on the Revister borne by each Joint Stock Company registered in the Calcutta Registry Office, with its object, nominal capital, and date of registration, during the year ending 31st March 1883.

list.	Number borne by each Company on the General Re-	Name of eace Company.	Object of each Company,	Date of Registration,	Nominal capital.	Remarks
					Re.	
1	484 485	Calcutta Ice Co., Ld T, F, Brown and Co., Ld	To enery on the business of auctioneers, horm-dealers, and barness-makers, &c.	5th April 2008	2,00 nen 7,00,000	
8	486	Sheikh Ahmed and Co., Ld	To smelt fron	11th	1,00,000	
4	437	Ellenbarce Ten Co., Ld	To cultivate tea	25th m	2,20,000	
8	438	Bengal Purveying Co., Ld	To carry on the business of pur-	27th	6 ,000	
8	439	Northern Bengal Railway Co-oper- ative Supply Association, Ld.	To supply stores	Sosh May	0,000	14.1
7	440	Co-operative Pharmacy Co., Ld	To carry on the business of chemists and druggests.	Slat	80,000	
B	441	Rencerange Ice Manufacturing Co., Id.	To manufacture ice	6th July ,,	40,000	
9	443	Messai Tea Co., Ld.	To cultivate tes	5th	2,50,000	
1	444	Camperdown Pressing Co., Ld., Titughar Paper Mills Co., Ld.	To press jute, cotton, &c To manufacture paper	25th	5,00,000	
	643	Imperial fee Co., Ld.	To manufacture paper	18th Augment	1,00,000	
	446	Ornen Consting Steam Naviga-	To navigate and carry cargo from port to port.	Zath	6,00,000	
	447	Enuptie Gwallie Tea Co., Ld.	To cultivate tea	5th September	2,20,000	
3	448	Finshold Ten Co., Ld.	To cultivate ten, &c	Stil 01 04	2 60,000	
3	448	Geben Tannery Co., Ld	To trade in hutes and skins	96h	1,80,000	
	451	Calcutta Tanuing Co., Ld Hooghly Mills Co., Ld	For tanning hides and skins To carry on the business of	Rint	13,50,000	
1	452	Northern Domrs Ton Co., Ld	Wenvers, spinners, &c.	26th	2 48 000	
	683	Northern Bengal Tea Corporation, Ld.	To oultivate ten	2614	1,25,000	
1	484	Bengal Bico Mills Association, Ld.	Milling and propering paddy and	17th October	10,00,000	
	658	Calcutta Steam Navigation Co., I.d.	To unvigate in Bennal	8th November 11	1,80,000	
1	456	British India Ice Co., Ld	To manufacture ico	15th	2,00,000	
1	457	Gloricos Ten Co., Ld.	To cultivate ten. &c.	200071	75,000	
	458	Gurjung Jhora Tea Co., Ld Subtigues Tea Co., Ld	(1) 10 1 A	2nd December,	50,000	
	150	Phoolimree Ten Co., Ld	To cultivate ten	direct.	5,12,000	
	461	Kananarrah Co., Ld	To carry on the business of weavers and spinners.	Sorti	14,00,000	
	462	Calcutta Trades Association	To promote the interests of the trading community of Calcutta.	18th January 1883	*****	
1	668	Darjeeling and Kurseoug Hotel and Prading Co., Lt.	Hotel-keeping	2nd February ,	2,50,000	
1	464	Baurnegte Tea Co., I.d	To cultivate tea	17th	4,00,000	
	465	Inland Plotida Co., Ld	To navigate on the principal rivers of India and Burmah.	17th	50,00,000	
1	466	Baintgooree Tea Co. (Donara), Id. Chota Nagpur Banking Association	To cultivate tea	10th	75,000	
1	468	Ld. Nedecm Ten Co., Ld.	To cultivate tea	1-4 20		
	460	Barisal Trading Co., Ld	To trade in timbers	1st March	8,00,000 20,000	•
	670	Bangai Telephone Co., Ld	To conseruce e-solutions :most	14th 11	10,00,000	
1					1,60,63,000	

#### No. II.

Statement showing the register number and names of Companies that have increased their capital during the year ending 31st March 1883.

Number on this	Register number borne by each Company.	DATE OF ORIGINAL REGISTRATION.	Amount of original capital.	Names of Companies.	Date of Increase.	Amount of introduction coupital.	REMARKS.
2 2 3 6 5 6 7 A 8 8 10 111 12	295 531 206 283 401 20 455 445 4:19 288 248 114	18th August 1979 21st Pebruary 1878 10th April 1879 12th 1870 12th 1870 28th March 1880 36th July 1868 18th September 1873 7th August 1863	1,12,000 16,00,000 80,000 25,00,000 1,60,000	Indian Portland Coment Co., Ld. Rouglee Runglint Tea Co., Ld. Unrieding and Himalayan stailway Co., Ld. Jassora Loan Co., Ld. Jassora Loan Co., Ld. Bengal Carl Co., Ld. Calentta Bearn Navigation Co., Ld. Imperial Ice Co., Ld. Northern Sengal Railway Co-operative Supply Association, Ld. Hiwarah Mula Co., Ld. My mensing Loan Office, Ld. Calentta Landing and Suppong Co., Ld.	18th June 1888 16th " " 18th " " 17th July " 18th September 1883 20th Pebruary " 20th January " 20th January " 20th January " 20th Manch " 20th Manch "	\$,00,000 \$,50,000 \$,00,000 \$,000 \$,000 \$,000	*Ry an over- sight shown in former atatement 30,000.  By an over- sight upt

#### No. III.

Statement showing the register number and names of Companies that have commenced winding up, have been finally dissolved, or are otherwise defunct, with their capital, dates of registration, winding up, or final dissolution, during the year ending 31st March 1883.

Number on this	Number borne by the Company on the Register.	NAMES OF COMPANIES.	Nominal capital.	Date of registration,	Date of winding up.	Date of final dissolution.	Date on which written of defunct.	Rumarks.
			Re.					
1	215	Darjeeling Terai Tes	1,00,000	28th Oct. 1867	30th May 1880	30th May 1882		
2	402	New Oriental Jute	6,63,000	29th May 1880	2nd Aug	30th ,, ,,		
8	846	Jokai (Assam) Tea	3,00,000	15th Nov. 1872	15th June 1682	18th Jan. 1883	1	
	325	Rustomice Twine and Canvas Factory Co., Ld.	8,00,000	15th Aug. 1875	10th Nov. 1879	20th July 1882		
8	245 837	Bursillah Tes Co., Ld. Jamalpore Trading Co., Ld.	1,10,000 50,000	21th Sept. 1872 20th June 1876	25th Mar. 1882 4th Jan. 1885	5th Jan. 1683		
7 8	348 376	Dam Dim Tea Co., Ld. Nowrea Nuddy Tea Co., Ld.	66,000 70,000	15th Jan. 1877 26th Dec. 1878	24th			
10	888 862	Bytagool Tea Co., Ld. Bogra Trading Co.,	66,000 20,000	26th May 1879 27th Dec. 1877	24th 7th Feb			
21	406	Ld. Western Dooars Tea.	80,000	22nd Nov. 1880	26th			,
12	466	British India Ice Co., Ld.	2,00,000	15th ,, 1882	17th Mar. ,,			

#### No. IV.

Statement showing the register numbers and names of Literary, Scientific, and Charitable Societies registered under Act XXI of 1860 during the year ending 31st March 1883.

#### Nil.

#### No. VI.

Statement showing, in order of registration, the numbers and names of Joint Stock Companies on the Register on the 31st March 1883, with their nominal and paid up capital, and their profit or loss as per Balance Sheets received, and date of such Balance Sheets.

r of this	borne by Company.	Намие от Сомрания.	Date o		Nominal capital.	Paid up	PROFIT OF PRE LAST SURET	BALANCE	Date of h		Range	A III Strile.	
Namber list.	Numbe ister		, og saci aci	10000	ospia	Conjutuat	Profit.	Loss.	DELETION SE	ices.			
					Ra.	Rs.	Rs.	Rs.			-		
2 2	20 22	Bengal Coal Co., Ld India General Steam Navigation Co., Ld.	24th July 25th Sept.	1888	24,00,000 33,00,000	<b>22,00,000</b> <b>33,00,000</b>	2,73,965 5,91,175	*****	Sist Oct. Sist Dec.	1882			
	84	Bengal Uncovenanted Service Medical Hull Association, Ld.	6th Dec.	89	60,000	25,940	6,987	****	Slat	00			
6 6 7	89 40 46 63 67	Beigal Ten Co., Ld	21st Feb. 4th Sept. 7th Aug. 13th Nov.	1839 1860 1961	20,00,000 2,00,000 12,15,000 10,00,000 6,00,000	8,48,520 2,00,000 12,15,000 10,00,000 4,56,000	83,492 6,490	28,889	Sist m Sist Sist Sist	1861			
30	68 73	Sylbot Tea Go., Ld. Great Eastern Hotel Wine and a General Purveying Co., Ld	18th Dec. 28th Feb. 15th Sept.	1862 1864	1,10,000	1,49,633 11,98,600	67,653	******	1st Jan. 28th Feb.	1882			
31 19 18 14	78 61 86	Ramghur Co., Ld Scon Tea Co., Ld Paukinturee Tea Co., Ld Dehrsdom Tea Co., Ld	20th Nov.	1862	10,00,000 3,00,000 2,50,000 20,00,000	6,25,000 8,00,000 2,18,463 8,78,000	12,379 11,989	10,208	Slat Pec, Slat ,, Slat ,,	00 00 10			
16 16 17 18	90 100 103 -105	R. Scott Thomson & Co., Ld. Central Cachar Tea Co., Ld. Beshmanth Tea Co., Ld. Muttuck Tea Co., Ld.	lat April	00 00 00 00	8,00,000 10,00,000 11,00,000 4,00,000	4 07,000 10,00,000 8,25,000 8,02,275	12,506 63,143 44,164	1,249	Sist Mar. Sist Dec. Sist	1682			
19 20 21	111 112 116	Rastorn Cachar Tea Co., Ld Equitable Coal Co., Ld Unleutts Landing and Shipping Co., Ld.	The second second	99 80 90	7,40,000 8,00,000 6,00,000	7,00,000 8,00,000 6,20,000	3",633	13,000	Sist Suth April	2688			
29 23 24 31	120 124 124 187	Howrah Ducking Co., Ld., Jelialpore Unclair Tea Co., Ld., Gracery Cutton Mills Co., Ld., Kurmong and Darjusting Tea	sith Oct.	19 17 10 11	8,00,000 1,d0,000 14,00,000 8,00,000	8,00,000 1,60,000 16,00,000 6,56,300	16,365 40,847	708	Stat Dec. Stat Stat Soth Nov.	1681 1682 **	-1-		
- 20 127 28 29	139 140 144 158	Co., Id. Durrung Tea Co., Ld, Monachera Tea Co., Ld, Tukwar Co., Id Moran Tea Co., Ld	Buth Feb.	1861	8,60,000 8,00,000 12,00,000 0,00,000	4,68,000 7,29,150 7,34,000 4,89,000		6,589	Slat Dec.	1881 1893			
30 81 32 33	189 200 203	Cascutta Central Press Co., Ld Durcablus Co., Ld Burnah Steam Tug Co., Id Kuttal Tea Co., Ld.	21st April 22std 12th July	1865 1866 1867	75,000 60,000 8,00,000 1,00,000	70,700 00,400 2,89,600 1,00,000	7,550 16,600 21,075	00000	Soth April Soth Nov. Soth April Slat Dep.	1883			

of thus	Number of Rec- ister borne by each Company.	NAMES OF COMPANIES.	Date of	Nominal	Paid up	PRH LAST	R LOSS AS BALANCE VILED.	Date of last limings Singut,	Remares.
Number Inc.	Namber ister b		registration.	capital.	cupital.	Profit.	Loss.		
				Re.	Ru.	Ra.	Ru.		
34 35 34 37 38	213 218 218 220 221	Chandypore Tea Co., I.d	8th Aug. 1867 lith Sopt. lith Aug. 1868 1901 Jan. 1868 7th April ,	2,50,000 3,20,000 1,20,000 3,00,000 1,12,50,000	2,80,000 8,20,000 1,17,750 8,00,000 1,12,50,000	16,490 19,303 22,483 16,640	7,64,797。	Slat Dec. 188: Soth June Slat Dec Slat	• Capital, Loss, \$50,00,000 \$7,64,797-38,
89 40 61 42 63 66 60 46 47 44 40	225 225 226 227 228 233 234 235 237 238 238	ing Corporation, I.d. Nutwampore Tea Co., I.d. Parsedpore Losa Office, I.d. Tipnorah Loan Office, I.d. Cullocherra Tea Co., I.d. Adulpors Terni Tea Co., I.d. Mingell Tea Co., I.d. Minjagwam Tea Co., I.d. Minjagwam Tea Co., I.d. Contral Terni Tea Co., I.d. Contral Terni Tea Co., I.d. Ld. Desani and Parbuttia Tea Co., I.d. Ld.	18th June 20th March 1871 Soth May 20th June 10th Nov. 4th Dac. 27th Jan. 1872 23rd March 4th April 2	4,00,000 20,000 1,00,000 2,70,000 1,10,000 6,25,000 1,75,000 1,75,000 4,00,000 4,90,000 1,80,000	4,60,000 18,200 84,220 2,60,900 1,10,000 1,20,009 1,50,400 1,75,600 4,60,400 4,60,400	45,190 6,000 4,397 0,341 25,121 5,391 3,574 5,015 10,429 27,119	260	Sint Doo. 148 Sint Doo. 148 Sint Doo. 188 Sint Sint Sint Sint Sint Sint Sint	
50 51 *62	240	Bowreah Cetten Mills Co., Ld. Occhecha Ten Co., Ld. Assensol East Fodian Railway Co-operative Society, Ld.	7th Aug. 17th Jun. 1878 13th Feb. ,,	18.00,000 3,00,000 10,000	18,00,000 2,48,675 10,000	436	2,325	Sist Aug.	
53 54 86 86	251 253 256 257	Holta Tea Co., Le. Rameagunge Coal Association, Ld. Dedurkosh Tea Co., Ld. Calcutta Hydrache Press Co., Ld.	8th April	3,50,000 0,00,000 1,00,000 1,70,000	3,50,000 8,25,000 94,240 1,70,000	76,200 31,489	9,625	Stat March Stat Doc.	
57 54 59	259 260 261	Budge Budge Jute Mills Co., Id. Gowhney ies Co., Id Fort Gloster Jute Manufacturing Co., Id.	Oth	15,00.000 4,00,000 14,00,000	14.45,000 4.00,000 14,00,000	41,553	4,913	Sist Dec.	
60 61 62 63 64 65 66 67 68	202 203 205 205 207 207 270 271	Now Bourbhoom Coal Co., Ld., Burar Co-operative Society, Ld., Kain Cherra Tester, Ld., Colonial Test Co., Ld., Amientile Ten Co., Ld., Mymensingh Lonn Office, Ld., Lahor Transport Co., Ld., Singbulli and Muranti Ten Co., Ld.	10th ,	7,20,000 4,000 2,75,000 3,00,000 3,00,000 1,00,000 1,00,000 4,00,000	7,20,000 4,000 3,00,000 3,00,000 5,00,000 50,660 44,250 18,000 3,00,000	84,243 860 12,332 3,579 5,427 20,5-5	3,150 82,645	Stat Oct Stat Dec. Stat Stat Stat Stat Stat Stat Stat Sta	
69 79	272	Scobpore Jute Manufacturing Co., Ld. Agricultural Phosphates Co., Ld.	1st Dec.	1,00,000	15,00,000 85,000	1,41,820	42,038	Sist ,, 188	
71 72 73 76 78 70 77	276 270 280 291 283 287	Puttareah Tea Co., Lel. Spring Side Ten Co., Lel. New Fulledin Tex to . I.d. Watson's Puterit Press Co., Ld., Motitola Co., Ld. Ramkerstopore Press Co., Ld. Riseraide Press Co. (Watson's Patent), Ld. Howinh Mills Co., Ld.	31st 10th Jan. 1974 10th Feb. 25th 3th March 23rd April	2,00,000 1,08,000 2,00,000 5,00,000 1,50,000 1,20,000	2,00,000 2,68,000 2,00,000 3,00,000 1,38,000 1,28,000 2,70,000	7,320 1,363 12,666 30,568 1,563 8,060		Sist 188 Sist	
78	290 290	Firand Bank   ress Co. (Watson's	14th	17,50,000 2,50,000	14,00,000 2,80,000	1,17,276 50,912		Stat Dec stat Jan	- 1
80 81 102 83 84 85 86 87 88 89 90 90 90 90 90 90 100 101 103 104 103	201 202 203 204 205 200 201 201 201 301 301 301 211 313 314 310 317 319 320 321 321 321 321 321 321 321 321 321 321	Patent), Ed. Joonstoller Ten Co., Ed. Joonstoller Ten Co., Ed. Burkhols Ten Co., Ed. Hingling Ten Co., Ed. Hingling Ten Co., Ed. Hingling Ten Co., Ed. Hingling Ten Co., Ed. Hingling Ten Co., Ed. Jingreegelant Ten Co., Ed. Jingreegelant Ten Co., Ed. Hingling Ten Co., Ed. Hingling Ten Co., Ed. Lingson River Ten Co., Ed. Linkstorish Ten Co., Ed. Linkstorish Ten Co., Ed. Hingling Cotton Wills Co., Ed. Second Mutual Ten Co., Ed. Kielle Jen Co., Ed	28th Aug. 7th Aug. 1at Sept. 1at Sept. 22rd 35th Oct. 8th Oct. 18t	1,85,000 80,000 80,000 1,60,000 1,60,000 1,60,000 2,90,000 2,60,000 2,60,000 2,50,000 2,50,000 2,50,000 2,50,000 2,50,000 2,50,000 2,50,000 2,50,000 2,50,000 2,50,000 2,50,000 2,50,000 1,60,000 2,50,00	1,35,000 80,000 1,05,200 1,05,300 1,05,300 1,05,300 2,20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 20,000 1,50,000	10,675 7,824 15,795 28,084 89,111 2,105 6,080 6,336 17,755 16,339 17,755 16,339 1,77,183 10,167 292 3,680	20,449 26,047 1,945 3,250 5,904 2,340	Slat Dec,	
106	830	North-Western Cachar Tea Co.,	35th	2.76,000	8,76,000	16,065	10,010	Sint	
107 106 109 110 111 112 113 114	831 803 834 836 939 341 842 843	Rungles Runglist Tea Co., Let Jessore Lean Ce., Let Genreypers Co., Let Salarsherpers Lean Office, Let Raja chal Stote Uo., Let Anthrese Tea Co., Let Moondesunga Loya Office, Let Mymensing creat Eastern Hengal Exchange Co., Let Cachur Native Joint Stock Co.,	stat Feb 12th April 1 12th 1 2ath June 1 2ath June 1 2ath July 1 2ath July 1 2ath July 1 2ath July 1	1,46,600 1,20,600 12,00,600 2,60,600 2,60,600 3,75,600 20,000	1,40,600 86,000 12,00,000 14,740 2,80,000 3,75,000 12,010	2,049 8,089 2,61,742 543 8,493 59,053 2,646	192	Stat April Stat Dec. 12th April Stat Dec. 1881 Stat Peb. 1881 Stat Peb. 1881 South April	
116 117 118 110 110	847 849 850 852 363 384	Ld. Tessas Valley Tea Co., Ld. Deling Co., Ld. Sound Tea Co., Ld. Diunseri Tea Co., Ld East Bengal M-reantile Co., Ld. Empress of Indus Cotton Mills	Sist 20th Nov. 3th Jan. 1877 23rd March 10th April "	1,00,000 3,50,000 10,00,000 1,00,000 20,000	58,675 3,20,000 6,93,475 1,60,000 1,60,000	19,895 16,610  2,108	2,504	Sint Dec. 188 Sint 188 Sint 188 Sint 188	
123 129 126 126 120 120 127 128 129 139	856 857 350 361 363 364 965 367 868	Co. Id. Good Hope Ten Co. Id. Commission Ten Co. Ld. Hatewar Ten Co. Ld. Hatewar Ten Co. Ld. Seemah Ten Co. Id. Seemah Ten Co. Id. Balanturpers Ten Co. Id. Balanturpers Ten Co. Id. Balanturpers Ten Co. Id. Hangal Les Mansanaturing Co., Ld. Hindoo Ten Co. Ld.	Tod May 14th 16th July 16th July 16th July 16th July 16th March 16th July 16th July 16th July 16th	8,78,000 1,15,000 2,50,000 50,300 8,00,000 1,00,000 1,00,000 20,000 3,30,000	8.75,000 1,00,000 2,50,000 54,000 60,000 1,60,000 17,639 8,28,300 21,800	4,560 5,21,586 5,506	1,359 87.918	The let   The let	2

e of this		Number of re- gister borne by each Company.	Names of Companies.	Date of registratio		Nominal capital.	Paid up	TER LAST	R LOSS AN RALANCE PILED.	Date of Bulance S		Ren	ARKC.
Kirmha	list.	Numbe grater each (			,	Cu great	0.00	Profit.	Loss.				
						Rs.	Ra.	Ra.	Re.				
	181	878 874	Loobah Tea Co., Ld Railway Hudoo Co-operative So-	27th Sopt. 13th Nov.	1978	_ 5,00,006 20,000	5,00,000 5,018	51,108 22	0.0000	Slat Dec.	1883 1860		
	183	377 375	longview Tea Co., Ld Darjeeling Tea and Cinchona		1879	8,44,000	8,44,000 2,00,000	17,219 28,815		Slat ,,	1882		
	135	370	Association, Ld. United Medical Association, Ld.	7th Feb.	11	5,000	e, rin	203		24th Peli,	1882		
	136	361	Beneal Stone Co., Ld. Chitpore Hydraulie Pressing Co.,	15th March	11	4,00,000	\$6,00 O	40,445	*** **	Sist inc.	1580		
	138	883 384	Namil Trading Co., Ld Kettela Ten Co., Ld.,	20th	91	20,000	1,00,000	573	20,125	Slat	1882		
	161	356	Munjha Ten Co., Ld. Darjeoning and Himalayan Rall- way Co., Ld.	10th April:	**	1,50,000	1,50,000	2,000 77,052	******	Blat	1881		
	149	850	Janualpore Ion Manufacturing	28th May	Pá	10,000	7,120	800	141111	Slut	**	1	27
	145	390 301	Jaipaiguri Tea Co., Ld Kaukinarah Lime Factory Co.,	6th June	**	10,000	<b>50,00</b> 0 <b>0,6</b> 30	4,900 1,447		Soth June	1882		
	165	802 303	Lat, Washaharee Tee Co., Ld Indian Portland Cement Co., Ld.	8th Aug.	**	1,50,000	1,50,000 2,00,000	8,023	*****	Sist Dec.	1691		6
	149	394 395	Bengal Hanking Corporation, Ld.		1880	20,00,000	42,000 97,155	63,070		Sint	1882		
	160	3985 397	Remarkill Association, Ld.	Still	**	6,00,000	41,000	860	27,1966	SINE	11		
	782	398	Naharteli Tea Co., Ld Hindoo Umen Benk, Ld		1880	20,000	95,250 1,440	144	7,259	Sixt Dec.	1881	}	
	254	400 401 403	Happin Ten Association, Ld Dates Loan Office, Ld	Sin Mar. Sinh July	21	70,000 1,00,000 4,00,000	70,000 40,790 8,02,500	8,695 84,480	******	12th April 31st Dec.	1682		
	155 156 157	404	Grosery Jute Mills Co., Ld Sylhet United Co., Ld United Jute Co., Ld	23rd Aug. 8th Oct.	80	\$0,000 \$0,000	8,00,000 2,001 6,75,000	1,48,010	100000	Mant	1881		
	169	407	Tezpore Enrming Co., Ld	8th Dec.	2851	20,000	2,320	11111	******	Slat	1881	1	
	100	409	Ringtong Tea Co., Ld	7th Pob.	**	1,30,000 3,00,000	2,00,000	8,427	30,439	31st Dec.	1882		
	169	411	Pingonah Trading Co., Ld	70h Mar.	41	20,000	2,075 NO.000	7,544		12th April 31st Doc.	01		
	166	413 414	Kirohong Ten Co., Ld	12th April	01	1,50,000 3,25,000	3,17,000	21,210	*****	Slut	11		
	166	416	Hengal Silk Co., Ld.	18th July	81	3.560,6000-0 1980 +0000	8,50,000	80	14,179	12th April	90		
	169	418	Syshet Lewn Co., Ld	i th Ang.	**	1,50,000 20.000	3,50,000	90d 852		15th July	10		
	170	420	Indian Kerosine Oil Co., Ld	16 h Oct.	0.0	2,10,000	1,40,000	26,102	******	Stat Jan.	1893		
	173	423 423 424	Tarpur Sugar Works Co., Ld New Opern House Co., Ld Jetinga Valley Tea Co., Ld		1882	2,00,000	12,000	P. GAM	34.400 350	30th Nov.	1892		
	175 176	425 426	Beoghur Rai way Co., Ld	30th	10	1,66,600 2,75,000 3,50,000	3,21,900	5,800 80,077	*****	30th June	F 11	1	
	377 37H	427	Rungamettes Tea Co., Ld. Lower Darjeeting Tea Co., Ld	15th	19	3,10,000	1,10,000	2,952		Stat Dec.	1.		
7	179	429	Alipore Conl Co., Ld.   Houghly Biver and Consting	Sed Mar.	11	2,20,000	1,25,180	1,141		30th Nov.	40		
	181	431	Bream Navantion Co., Ld.	14th	90	1,60,000	***		*****	00			
	183	433	Jinglam Ten Co., Ld	2lst "	13	2,60,000	5,00,000 1,00,000	38,235	10,989	Slat Dec.	110		
	185	695	T. F. Brown and Co., Ld.	oth April	pn .	7,00,000	*****	***		. 01.810			,
	186 187 188	431 437 438	Shaikh Ahmed and Co., Ld Elleabaree Tea Co., Ld Bengal Purveying Co., Ld	25th	0.0	1,00,000	1,20,000	8,1930		Slut Doc.	1889		
	189	430	Northern Bengal Railway Co- operative Supply Association,	30th May	0.9	8,000 8,000	6,410	1,300	. 70 199	31st Dec.	1882		
	190	440	Ld. Co-operative Pharmacy Co., Ld. Rancesunge Ico Manufacturing	Sint July	**	50,000 41,000	20,000	559	** ***	31st Dec.	1882		
	192	442	Co., i.d. Messai Ten Co., Ld.	nels ,,	8.0	2,50,000	20,000			44114	813136		
	194	443	Campbrdown Pressing Co., Ld		70	6,40,000	4,30,000	24,150	***	30th Nov.	1983		
	196	445	Origin Counting Steam Naviga-	18th Aug.	73	4,00,000 4,00,000	***	*****	*****	*****			-
	197	447	Kamptic Gwallie Tea Co., Ld Pashok Tea Co., Ld	5th Sept.	**	2,20,000	•		*****				
	199	440 450	Coloutta Tanning Co., Ld	ieth	21 10 20	1,60,000 2,00,000	1,42,500	24,163	*****	31st Dec.	1882		
	201	451 458	Roughly Mills Co., Lt Northern Pounts Ten Co., Ld.	21.5 201h	0 h	13,50,000	*****	******	4 8 9 8 4 9	*****			
	203	453	Ld.	28th 10	24	1,00,000	4,577	*****	*****	31st Dec.	1882		
	204	455	Beneal Rice Mills Association.	17th Oct.	*1	20,00,000		111111	100444	*****			
	205	457	Calcutta Steam Navigation Co., Ld. Glencoo Tea Co., Ld.	8th Nov.	1.9	6,00,000	< 0.01 + 4	*********	004684	40000			
	200	450	Gurinng Jham Tea Co., Ld.	20th vnd Dec. 2nd	East 11	75,000 50,000 1,00,000	10,196		10044	31st Dec.	1892		
	200	400 401	Phoefbaree Tea Co. Ld Kanknarrah Co., Ld.	anche la	10	8,12,000 14,00,000	101 - 11	*****	004010	*****			
	211	463	Darjeeling and Kurseong Hotel and Trading Co., Ld.		EBBI	8,80,000	*****	140400	407249				
	212	464	Bauracote Tea Co., Ld	a struct.	12	4,00,000 80,00,000	001.000 H	4510+4	401000	889411		11	
	214	488	Bhintgooree Ten Co. (Docums), Ld., Chota Naspur Banking Asmer-	ioth	24 25	75,000 20,000	401041	*****	80000	00000			
	216	469	ation, I.d. Nedecim Tea Co., I.d. Burnel T. ading Co., I.d	1st March		3,60,000	*****	200010	20.411	******			
	218	470	Bengal Tolephone Co., Ld Bengal Telephone Co., Ld	2 4 4 5	22	10,00,000	405155	101.170	41-444	00.000		-	
			Total	*** **	24. 15	10,23,23,600	7,42,94,988	.001.00	404	*****			

#### Rainfall, Weather, and State and Prospects of the Orops.

Statement showing Rainfall, Weather, and State and Prospects of the Crops in the different Districts.

of Bengal, as reported to Government during the week ending the 14th July 1888.

No.		District, and		in of		Rainfall at Sudder Station in inches,	
	-						
ENGA	A L	Western Di	atri	als.			
1 3				14		0 91 0 72 0 34	Light showers at intervals; weather generally fine. Want of rain has retarde agricultural operations seriously. Transplanting is almost at a stand-stil Prospects unfavourable.
١.		Ransegunge	)			0.98	
1 2	1	Bankoorn, Bisheopore Maliara	00	14		0.43 0.33 0.82	Weather—hot and cloudy with gales. The rainfall of the week was insufficient for the rice crop. Til and boro paddy being reaped. Kang. kheri, kodu an other hilly crops of the Sonthals are being sown. Prospects continue favou.
1		Khatra				1.28	able. Public health good.
8	1	Beerbhoom.		14	24	2.08	Weather—sultry. Transplanting of aus and amus crops going on. Propos satisfactory. A few cases of cholera in south of district.
1 .	1	Rampore Hi Midnapore,		14	10	0.61	Weather-cloudy with slight showers. Prospects of crops good, but more rain
1.		II b-lo-		14		0.61	wanted. Public health good.  Weather—hot and cloudy. Owing to the scanty rain cultivation of our rice
6	1	Hooghly,	9.0	7.8	90		not going on Public health good.
(		Howrah J Oolooberia Control Di		14	P3	1·38 0·83	Weather—sultry till night of 11th, since which cloudy and showery. Jule, a rice and sugarcane growing fast. Amus rice showing above ground.
, 6	B	24-Paryuunnba,			'83	1.820	Weather-clear and hot in the beginning of the week, and cloudy and rainy
		Nuddea.		14	10		the latter part. Early crops doing well. Transplanting of smus pade going on. Prospects good. Public health good.  Weather—cool and cloudy with occasional rain. Crops doing fairly well. Mort
2	"	Kooshtea	. 9.9			1.99	lity from fever somewhat increased.
1		Meherpore			***	0.88	и
8		Choondangs				0.52	
3	В	Khoolus,	10	14	9.9	0.77	Weather—cloudy and rainy. Transplanting of amon continues. Prospects god Public health continues good.
1	9	Jessore,		14	13	0.72	Weather-hot and cloudy with occasional slight rain. Want of rain is likely
		Jhenida			***	0.37	injure the rice crop. More rain is urgently wanted. General health good.
		Magura Narail			**	2 25	
		Bongong				0.90	and the second s
1 1	0	Muoreked abad,	9.0	1.4	9.9		Weather—hot and close, with cocasional light showers. More rais much want for transplanting operations. Prospects of okadoi favourable. Public heat generally good.
	11	Dinagepore,		13		0.28	Weather—hot and dry. Rain much wanted. Bhadoi is suffering, and transplaing of aman is being delayed. Rice selling at from 16 to 28 seers per supec. Weather—overcast, and strong east wind at times. Rain very much wanted
1	200	Nattore	20	4.20	9.8	0.10	for both aus and amun crops.
		Nowgong Bungpure		13		0 80	Weather-hot. Prospects of standing grope fair. Transplanting of am
	•	Gaibanda	(7)	10	00	1 54	going on. Bain is urgently required. Cholera still somewhat prevalent.
		Kurigram	*			2013	.+300
1	4	Nilphamari Hogra,	2 40	14		8.81	Weather-most part of the week dry, and heat oppressive, but good rain in
							latter end. Transplanting of amon continues. Til, kaon and juli ame ready reaping. General health good, except some cases of fever reported from police station of Bogra and outpost Dhunat.
la la la la la la la la la la la la la l	6	Pubna,	9.0	16	90	2.10	Weather—cloudy with slight showers. Prespects of crops good. Aus pad being gathered and first instalment of jute in the market. More of wanted. Rivers falling considerably. Public health good.
1	16	Darjeeling,	0+	14	3.0	1.98	Weather-brighter than usual for the season in the hills. All crops doing w
T I	17	Juspigores,	7.5	14	8 5	1.86	Weather—abnormal and unbealthy; unusual breaks. Prospects of crops prefair. More steady rain is wanted. Both early and late rice are suffering some parts of the district for want of steady rain. Cholera still lingers in to of Julpigoree and district.
		Cooch Behar.	0.0	14	90	0.48	Weather-very hot and close. Early rice being out. Prospects of jute f
,		Dinhatta			0.0	0.58	Rain wanted for late rice. Cholera abating.
		Mathabhan	aga			0.76	11
		Meckligun up to 7t	No		0.0	Nil	
		Bastern &	rate				
13	18	Dacon Manickgu		y 14	'6	4 0 10	Weather—hot and sometimes cloudy. Roachia and sail paddy and kalai moog are being sown. Aus paddy and jute are being cut. Sugarcane
1		Munshigu	uka			034	been destroyed by worms. Prospects of ane paddy in that station is impr
DACCA DIVIN.	19	Furreedpore, Goalundo Madaripor	13	14		70 - 43 29	ing, the waters having fallen.  Weather—very hot, generally gloomy and showery, but the real rains still toff. State and prospects of crope still fair, but the need of rain is become rather urgent. There is some small-pox in than Palong, and a good deafover about Furreedpore and elsewhere. In Goalundo public health gener
	20	liactorgunge,	84	12	10	0.90	good. Weather-high wind during the first three days of the week, and suitry of
1	21	Mymenengh,	84	18		1.63	wards. Crops doing well. General health good. Weather—very oppressively warm owing to absence of rain; rivers also h
		Jamalpore				0.58	sunk rapidly in consequence. Aus and jute have suffered from want of rais
		Atten	uge			0.78	the north-east of the district; elsewhere crops and to promise fairly. At being transplanted. General health fair.
		Netrokom				8.80	

N	0.	District, ar		te of		Ruinfall at Sudder Station in inobes.	
EN	GAI	-conold.					
Caste		Districts con Chittagong	old. July	17	'As	2 12	Weather-hot with occasional rain. Transplanting of ass almost over. Som
. (	20	Ontroug on 8	- usy				ing of amun continues. Prospects fair. Prices steady. Cholera and cattle
1	-	Markhalla		10		2.82	disease still reported.  Weather—changeable:—often   cloudy; at times clear and sultry; atron
	88	Noakholly,	93	12	20	200	southerly wind sometimes prevailing. State and prospects of one paddy fair
				20		O.ET	Transplanting of amus paddy in progress to some extent.
	34	Tipperah, Brahmunh	nria	12	P#	0.51	Weather—unusually hot and occasionally showery. Prospects of crops generall good. Public health generally good.
1		Chandpore	)		0 # 1	1.70	
1	25	Chittagong Hill	11 30	10	9-0	0.28	Wenther-very close and warm; occasional light showers. Jacom paddy doing well Cotton crop short. Land being ploughed for rice.
1		Hill Capporns.		11	0.0	1.87	Weather—hot and occasionally rainy. Amon paddy is being transplanted. 2
							being reaped and moog being sown. Prospects of sugarcane tair. Publ
EH	LAB.						health good.
						0.55	
1	36	Patns. Barh	Jul	y 14	00	0.57 1.36	Weather-hot. Sowing of bhadoi and paddy crops continues. Raker, main and other crops germinating well. A few cases of cholera and small-po
		Behar			000	0.68	reported from Behar sub-division.
	27	Gya	0.0	14	83	Nil	Weather-extremely sultry. Want of rain beginning to be severely felt in son parts of the district. Generally, however, agricultural prospects good. Choice
1							is still very prevalent.
	28	Shahabad,		14	P4.	Nil	Weather-too hot for the season. Break in the rains unfavourable to agricultur
1		Buxar				1:47 Nil	prospects. Prospect of rain today (14th). Out-turn of cheens estimated at annas, and of boro paddy at 14 annas.
	29	Durbhunga,	.00	14	99	0.10	Wenther - high wind, with clouds, showers and sunshine; variable, excessively b
1		0-7			,		up to 12th. Accounts vary. Rain badly wanted in some places; in other
1							all accounts good. Sudden flooding of low lands has done much harm. Heal good. Prices rising slightly or stationary.
	20	Moznfi-rpore,		14	00	0-34	A break in the rains lasted from the commencement of the week until the 12t
		Hajeepore			0 0 1	0.54	with strong sun and but little cloud. Bhzdoi sowings almost complete Sowing and transplanting of aghani in progress. Absence of rain has retard.
		Seetamurk	100				operations.
1	81	Sarun,	0.0	1.4		Nil	Weather- close and sultry. Heavy rain at the time of report. Prospects goo
1		Gopalgun	70			1·46 0·90	Weeding going on briskly. Makai in progress. Rain much wanted. Sporad cases of cholera and small-pox still reported.
1	82	Chumparun	ga	14	20	Nil	Weather-hot and cloudy with east wind. Prospects of crops continue favourab
						0.28	Agricultural operations in rapid progress. General health fair. Weather-steamy and cloudy at intervals. A break in the rains. Transplanti
1	83	Monghyr,	July	7.6	63	2 =0	of winter rice retarded for want of rain. State and prospects of blace
1		ma		9.4		0.15	crops still very good. Public health generally good. Weather—very hot. Marma and aghasi paddy being transplanted in the nor
1	84	Bhagulpore,	9.0	14	0.0	0.70	Bhadoi crops promise well. More rain much wanted everywhere. Pub
						Nil	health good.
	8.5	Porneah. Kissenguo	00	14	91	3.69	Weather-very hot till to-day (14th). State and prospects of crops very good; be rain is rather wanted. Health fair. Fever bad in places.
1		Arrareab	20		111	0.54	
1	86	Maldab,	00	14	80	0 79	Weather—sultry; scanty rainfall; moderate easterly wind prevailing. Insur- ciency of rain is materially affecting the standing crops. Prices of food-grain
							rising. Public health generally good.
1	87	Southal Pergh	n.			*****	Report not received.
R.1	ARS						
				**	200	E.OT	187 Ab an annual Deali balan madal 3
1	86	Cuttack,	July	18	288	5-07	Weather—seasonable. Beali being weeded. In some places earad being ploughed. Rice crops on low land in some parts of Jajpur and Kendrapa
1							sub-divisions reported to have suffered slightly from floods during last wee
							Sugarcane, turmeric and arkar growing well. Common rice selling at fro 20 to 24 seers per rupes. Public health generally good,
	89	Pooree,	98	13	0.0	6.84	Weather-rainy, Much damage done to paddy crop in pergunnals Rabas
		Khoorda	-		0.04	7.11	I Chabbiskud and Rameswar by recent flood. Rivers falling, Miscellanet
							crops doing well. Several cases of cholera among pilgrim; otherwise pubbenth good.
-	40	Balasore,	20	18	0.0	8/84	Weather-somewhat hot with occasional rain. Ploughing and transplanti
			-			100	going on. Standing crops doing well. A few cases of cholera reported the Bhadrack sub-division. Public health otherwise good.
144	JAA	NAGPORE.					o and an and an an an an an an an an an an an an an
		th-West Front	ior				
	41	Agonoy.	Jale	18	99.9	2.48	Weather-warm and cloudy. Sowing of bhadoi and early rice still continu
	WA.	week to eft mi	- 4.3	20	-		General prespects good. Health good.
	42	Lobardugga,	20	14	29	3.88	Weather-showery. Prospects of crops satisfactory. A good deal of sunshing done much good during the week. Epidemic cholera has broken out
		Palamow	44		***	4:45	Husanabad. Prices steady.
	48	Singbhoom,	99	18	81	3-61	Weather-hot and close; bright unclouded skies, and no rain during the great
		1				1	part of the week. Everything progressing favourably. Prospects promisis General health fairly good.
	44	Manbhoom,	60	16		1.25	Wenther-rainy and stormy. More or less rain general throughout the distri-
		Govindpo	10		0.0	0.68	Paddy, Indian-corn, and biri, moog, and other pulses on the ground doi well. Public health very good.

Published for general information.

CALCUTTA, STATISTICAL DEPT., The 17th July 1883. COLMAN MACAULAY, Secy. to the Gost, of Bengal. The following Statement shows the Quantities of the Principal Staples of Traffic imported into Calcutta from the Interior during the month of April 1888.

			-		FOO	D-GRAII	VB.			Finnous P	RODUCTS.	011-0	BBD6.				Sue	AR.
Whence im	ported		Rich	AND PAI			Gram	Other	Motel	Jute, raw.	Gunny-	Linseed.	M unterd-	Ton, ludian.	Cotton,	Silk raw.	Refined	Unre
			Rice.	Puddy.	Total (m rice).	Wheat.	and pulses,	femile graitm.	Total.	3416,15	bugs.		soul.			1		
RESOA			Mds.	Mds.	Mda.	Mds.	Mdu.	Mdn.	Mds.	Mds.	No.	Mdu.	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.
urdwan herbhoom lidinaporo	000 000 000	101	66,242 6,413 1,84,545 39,173	9,925 58,942 2,415	72.445 6,413 2,21,644 40.643	796 11,201	8,314 876 4,442 12,610	26 1,377	77.128 7.289 2.28 (148 (15,184)	40,150 31,791	400 695,141 650,732	8,690 8,175 4,998 9,914 4,769	6,297	4+1100 010 +0 110 +10	18 16 707 2,325	910 461 52	2,524	1,933 10,319 21,194
loogily I-Persunnaha Inddea Indua easore		0+4	9,51,432 7,383 3,860 5,936	2,500 4,975	2,72,130 7,385 5,402 8,501	3,525 79,779 2,411 3,760	8,163 64,4-4 650 29,204 2,029	2,858 340	2,93,918 1,50,416 8,052 81,519 6,120	80,654 250 2,611 718	87,050	88,511 ),600 4,434	100	**************************************	197 85 86	£57	7,030	71,724
loursheinbad hoagepure hjshahyo hinepore	000 200 200	000	6,889	1,1045	18,894	******	848	**************************************	643 643 18,804 1937	2,413 8,952 58,760 3,150 2,62,633	\$6,990 \$33   \$13,780 \$180 \$63,149	1,302 47 b	1,081	612	133	8	#40 - 40 #40 - 40	******
tourn tubun talpingaruo Ineca	904 004 440	***	729 20,585 6,592	00400 00400 00400	729 29,895 6,592	1,801	1,400	200	91,085 10,761	18,475 1,76,871 1,00,138	357,570 120 1:0	849 13,998	14,669	199	4,053	3 24	**************************************	**************************************
urreadpore lackergunge lymensing appensis buttageng	400	600 600 844	8,44,879 1,235 1,650 4,189	00000	3,44,570 1,235 1,550 4,149	******	1,700	###*** ###*** ###***	3,40,570 1,342 1,550 4,999 18,626	34,583	200	******	170	******	478 435	100:17	000 00 000 00	**************************************
Total of Ber	804	***	9,90,164	1,10,078	19,626	1,04,811	1,20,953	6,190	12,90,374	7,87,020	2,286,018	83,231	80,342	712	8,506	1,258	50,203	1,86,8
Bunal atna ya	600 "001	•••	4	******	4	24,296 4,600 71,023	46,069 40 4,832	8,641	79,010 4,055 75,854 4,650	*****	100.11	1,01,206 21,541 24,022 276	84,047	*****	11		1,303	1,3
linhahad Lozuflagporo Jurhhunga jarun	gb+ e++	000	20	*****	20	545 344 6,017	1924 40,245	266 7,018	545 1,268 55,551 17,390	291	******	15,340 400 83,442 83,702	4,2 3 500 20,094 41,470	1	******* ****** ******	000 00	1.060	****
dongityr - Shaguiporo Surgenii Inidah Jouthal Pergui	mahe	***	s	44444	4 2	5,518 400 200 59,850	956 593 492 9,557	1,179	1007 6322 70,04%	8,170	### + # # ## - # # ## - # # ############	155 14,747	61 1127		10 10 23	82	13,522	400**
Total of B		***	30		80	1,78,200	1,12,037	23,034	3,10,852	7.290		2,31,263	1,04,913			-	10.000	1,9
ORIGI	۵.		6,927 86,757	25,153	6,927	*****	165	*****	6,927 1,02,641	664	*****	400.00	480	494-43	*****	*****	00000	
Total of Or	inon	***	93,644	25,153	1,00,404		164		1,00,568	441			480	******	******	000-01	000100	
Omota Na	aponi 	t. 		,,,,,	*****	4****	538	*****	538	*****		1,600	2,962	*****			******	
Fraud Total of from the lander th	* FEFF 111	111-	10,83,878	1,36,125	11,68,955	2,80,110	2,40,182	27,815	17,17,062	7,93,700	2,254,013	3,10,105	2,33,697	743	8,520	1,801	63.727	1,90,
OTHER PRO								*****	460***	0,140	******	86	4,960	776		84	35	
lessm lurbi-Westerr and Dudh Pampab	***	***	3	*****	1;108		5,589 2,181	*****	6,12,95 7,850		041+00	81,002	20,425	402		*** ***	*****	
ented Provinces in the second	LANG.	000	1		1	*****	2,047		2,08		1,000	00000	400.00		960	00 11	897	
Grand Total	i of c	1688	10,84,991	1,36,125														0 1,30

## The Sea-borne Trade of Calcutta in these Staples during the month of April 1883 was as follows:-

To ludan ports, viz.— Hunday Other ports in Hombay Nation Other ports in Hadras Establic hunday Other latent ports I conficiently Total of Interportal	2,14,508 1,994 1,995,817 16,994 1	12,533	2,14,548 1,034 2,04,400 16,094 4,80,977	41 43 485 279	9,546	72	2,14,548 6,834 2,64,600 19,953 925 528 4,47,398	5,880 5,880	2,448,175 115,200 115,500 155,800 1,170,000 249,275 134,616 4,800,786	s		37 2 8 8 1	00000 00000 00000 00000	307 2 12 7	8,666 8,759 1 507 975	
To Foreign ports— ,, United Kungdom United Foreign ports	2,00,443	1,207	2,90,484 4,00,908	4,91,681 2,1001	5,551 51,603	3,968 8,018	7,91,684 4,70,053	7,03,096 1,00,057	74,820 4,802,700	1,64,618 37,027	3,86,048	7,950 344	63,033 10,012	800	64,804	-
Total of Foreign trade	6,96,597	1,297	6,97,292	4.91,607	57,304	12,474	18,61,787	8,03,683	4,437,520	2,01,030	3,50,117	8,314	60,045	1,451	65,310	-
Grand Total of Ex- 1863 gents L April. ( 1882	11,25,90.	18,580 11,207	11,34,200	4,95,468 2,20,873	60,910 40,674	12,547	17,09,13. 14,02,4.7	9,03,701 6,02,161	8,935,299	2,01,614	8,50,117 65,999	8,385 1,070	76,227	1,770 665	74.557 14,596	1 21

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic importe into Calcutta during the month of April 1883.

#### IMPORTS INTO CALCUTTA.

		2	OOD-GRA	1976.		PIBROUS!	PRODUCTS.	OIL	BEEDS.	10	4		800	A 8.
SPECIFICATION OF ROUTES.	Rice.	Paddy.	Wheat.	Gram and pulses.	Other food- grama.	Jute,	Gunny- bags.	Linseed.	Muntard-	Ten, Indian.	Cotton,	Bills, Paw.	Refined.	Unre- fined.
,	Mds.	Mds.	Mds.	Mds.	Mds.	Mds.	No.	Mdn.	Mds.	Mds.	Mda.	Mds.	Mds.	Mde.
road	7,76,088 4 64,878 26,970 1,21,416 95,688	0.254 b,153	68,002 7,84,530 84,097 6,414	1,01,875 1,13,516 19,531 7,947 4,030	2,83 b 23,822 1,159	2,07,348 2,26,558 8,83,848 82,442 445	903,760 79,272 1,200	44,570 36 3,52,063 80,912 6,200	15,571 4,660 6,25,162 21,278	776 473 712	8,480 240 68,923 4,050 109 18,009	517 60 510 478	13,676 15,387 316 36,315 397	43,060 2,009 72,933 19,036
irand Total of Imports 1883	10,84,994	1,34,125	8,92,043 4,66,399	2,51,010	27,816 26,190	8,00,000 8,59,537	2,257,013	4,84,600 2,93,185	6.66,460 3,94,755	1,941 2,073	95,758 88,863	1,031	66,200	1,00,867

The following Statement shows the Values, Quantities, and Numbers of the Principal Staples of Traffic exported inland from Calcutta during the month of April 1883.

#### EXPORTS FROM CALCUTTA.

	Cotton pier	o-kood».	Cotton	wist.		0	1	Cotton pie	ce-goods	Cottor	twist.		
Whither exported.	European.	Indian.	European.	Indian.	Sait.	Gunny- bages.	Whither exported.	Euro- penn.	Ind-an.	Buro- pean.	Indian,	Sait.	Gunny-base.
	Ra.	Ra.	Mds.	Mda.	Mds.	No.	CHOTA NAGPORE.	R.s.	Rs.	Mds.	Mds.	Mdn.	No.
Burgat.							Manbhoom	76.725	******	31	803	3,479	6, 665 500
Burdwan	2,68,676	2,160	453	799	28,381 11,160	57,190 15,750	Total of Allerta Names					-	
Beerbhoom	1,07,250	30	836	*****	1, 105	15,5386	Total of Chota Nagpore	1,12,350	110799	19	372	7,293	5,040
Midimpore	1,26,000	9,625	420	2.6	3,700	40,7193	Grand total of supplies into						
M-Pergunnaha	2,106,1060		834	59	0,025	20,620	the provinces under the	84.93,780	60,148	10,370	0 020	3,88,584	1,145,586
Nuddes	4,63,210		1,158	*****	3,540	45,580	Lieutenant-Governor of	1311,7363,87312;	00,190	10,070	2.000	01001004	1,177,300
Khulm	7,900		160	*****	6,500	840	Bungal.						
ensore	1,13, 175	1,260	7	6	4,020	7,910	0						
Moorahedahad	1,80,180		2565	******	7,000	1,950	OTHER PROVINCES.						
Rajalinhye	3, 115, 10141	*****	122	*****	10,775	2,730	Assum	3,80,057		671		17,310	110
Rungpore	2,18,492		104	*****	9,40 <u>2</u> 8,400	3,560	North-Western Provinces	F-1 F-1			000	2 11 11 11 11	
Bourn	1,15 520		69	*****	36,175	120	Punjab		B, N 80)	2,017	207	13,098	1,077,615
Tulins	75,360		25-6	*****	1,256	941112	Central Provinces	21,63,023	7:20	524	*****		83,1435
Juricoling	85,520	******	279		8 1974	980	Bajpootama States	B1,6mb		256		******	0,4%5
Ducea	4.17,258	101 m	671	242422	24,859	3,720	Bounday		450	- 1	*****	of)	8,504,375
Furreedpore	2,91,740		649	******	15,720	4,1590 500	Madras Pondicherry	23,071	1,345	1,545	310	*****	384,790
Inckergunge	76,421	001111	24	******	21,725	800	Reinagh Busanah	2,02,358	500	108 567	2,765	******	1.170,000
Mymensium	3,32,605	20	242		425	3,000	Other pinces	4 4 4 7 9 - 212	705	32	457.6		4,637,521
Noakholiy	8,400	*****	*** **	******	3,375	44,440							
id Other Floresh			0.000	2 100	0.40.007		Grand total of (1883	1,54,94,889	77,745	18,672	6,595	4,15,939	11,257,827
Total of Bennal	83,81,965	48,778	6,042	1,100	2,49,267	218,211	Exports in April { 1882	1,37,29,778	67,423	19,334	5,073	5,63,047	10,188,422
SHAR.							The Sea-borne Trade of	Calcutta in	those St	aples d	uring ti	he manti	of April
Patna	14,45,028		45	70	48,390	221,565 22,565	1883 was as follows:-						
Gyn	4,83,000		10	127	11,198	114,444)		1 1					
Bhahabad	2,87,925			******	3, 1988	6,560	IMPORTED INTO CALCUTTA-	Ba.*	Ra.	Mds.	Mdn.	Mdn.	No.
Development	7,117,178	000000	51	342	0,271	21,175	From Poreign Ports-						
Champarun	8,44,175		119	100.000	9,525	8,670		1,13,23,737		20,088		3,73,688	
Monchyr	8,74,700		14	99	11.038	80,610	Other Foreign ports	21,462		135	*****	25,343	******
Bharulpore	8,46,000		87	85	4,275	1,925		-				-	
Furnesh	0,90,000	******	******		6,550	******	Total of Foreign trade	1,13,15,199	*****	20,238		3,90,081	*****
Monthal Pengumnaha	3,61,675		33	152	20,546	100,240							
Trial of Bobar	51,48,295	17,370	404	1960	1,31,974	085,330	From Indian Ports—	15,20%	80,200	*****	4,677	43,910	. 100701
							Mastras	18,050	1,000		*****	400 + 40	1,000
A							Other ports in Madras British Burmah			000111		10000	*****
ORIHBA.							Other Indian ports	1	*****			2,419	900
Cuttack	******	890000	207	100100	442446	12,500						My1911 d	200
		*****	0.000	*****	******	19,100	Total of Interportal trade .	29,874	251,290	4	4,681	46,038	1.900
Poorus				10.05.4		200,075		1			1		
Bainsore		00 111	8,098	204	*****	8001010	Grand Total of 1883	1 10 70 000	51,280	20,245	4 49 24	4,45,119	2,200

The following Statement shows the several Routes followed by the Trade in the Principal Staples of Traffic exported from Calcutta during the month of April 1883.

		Bricipi			n Par					COTTON PIN	Ch-Goods.		COTTON 1	wist.	9-14	9
		PECIFI	UAT	ton c	A MO	UTES.				European.	Indian.		Europeau.	Iudian.	Sait.	Gunny-bega
By country " War at " rail " road " bos	Lant	Indian	inl inl	000 000 000 000 000	000 004 000 000 004	046	000 000 000 000 000 001	800 000 000 000 000	00 - 01 - 01 - 01 - 01 - 01 - 01 - 01 -	2,51,843 6,39,123 1,20,05,625 19,81,120 2,63,013 4,60,167	82,860 5,700 10,753 2,560		Mate. 1,264 1,326 0,528 2,835 1,232 6,711	Mds. 2,561 58 3,966	Mds. 1,64,785 8,780 1,74,798 65,882 5,675	No. 81,141 2,181,238 50,040 0,045 8,038,250
	Grand	Total c	1 18	s porte	ın Ap	ril	09.0	1883	***	1,54,01,989	77,748 67,423	-	18,384	6,685	4,18,939 5,69,947	11,257,627

As per tariff decimention value.

STATISTICAL DEPARTMENT, The 1-4th July 1883.

COLMAN MACAULAY, Secy. to the Goot, of Benyal.

#### Meteorological Report of the Province of

TOT									STA	TION	OBSE	RVATI	ONB,					
DIVISION				AIB P	R.MAS U I	LII,	1		7	Chups	CATUR	ı.		Humii	DITT.	CLO	UD.	
MITEOROLOGICAL	DISTRICT.	Representative stations.	Bighest, 10 A.M., barometer read- ing of mouth.	Lowest, 10 A.H., barometer read- ing of month.	Mean, 10 A.M., for month.	Mean reduced to sea-level.	Variation from normal mean.	Bighest of month.	owest of m	daily	Meen daily mini- mum tempera- ture.	Mesn daily tem- perature.	Varuation from normal meall.	Mean, 10 A.M., humidity.	Variation from notusal mesu.	Mean cloud amount, 10 a.m.	Variation from normal mean, 10 A.M.	Bainfall.
	1	Canalana	20'777	20.484	90.875	29.625		97'6	7618	94 2	81.0	89*6		83		2.8		14'89
	Pooree	Gopalpore	790	613	807				70'6	88.8	78.1	83.2	111111	79	+7	7.4	+0.8	22.69
1		False Point	789	303		619		102'0		93.9	78-4	86:0	-3.3	73	+4	7.6	-0.8	19.77
6	Cuttack	Cuttack	751	296	631	602	-019	105'4	75.8	91.1	77.6	86 4	1	70		8'0	-	61/6
,	Balasore	Balasore	785	149	880	88R	one.	98'4	7218	A918		88*2	0.4	78		6'6	0.8	18:04
- [	South-West Midnapore and South 34-Pergun- naha.	Saugor Island	700	1.40	848	201	-035	96.3	74'0	Ne o	000	00 2	-07	70	2012			10.04
6-3	Midnapore	Midnapore	672	230	489			105-8	73.0	94'3	77.8	8619	******	71		817	*****	6'61
BERRAL.	24-Pergunnahs, Howrah, and Hooghly.	Calcutta	773	301	567	589	026	9910	73'2	91.9	77.7	94'8	~0.9	77	-5	<b>6</b> °0	-0.4	9.80
	Burdwan	Burdwan	689	225	492	891	-019	102-7	78:4	93'4	78'H	86'2	0'2	73	-6	7'4	-0.8	12'08
Soura-West	West Burdwan, San- koora, and Beerbhoom.	Ranigunj	*****	1+1800			***	***		000	0.0	*****	4 * 1 + + +	****	*****		******	***
00	Moorshodabad	Berhampore	710	432	804	600	000	102'2	74'3	91'8	77.1	86°0	-1.2	80	+1	8.8	+0.6	8'48
-	Nudden	***		*****		.,,				**1	***	******	4.1.10				******	
	Jemore and Khoolna	Језного	750	412	578		-019		741	93'2	78'7	85*4	+0.4	79	8	5.6	-0.1	8 90
-	Chittagong	Chittagong	783	401	596	689	-010		73 0	88.6	76 11	81:3	-0.8	04	-1	7-2	-1.1	34'28
0.1	Chittagong Hill Tracts	Demagri				101			***			410111		*****	******	111111	500004	***
4	Pauliannum	Barrisal	*****	111111						440	***	****		800	40010.	444	015+51	***
BREGAT	0.0	Noakholly	111	*****				***			***	******		404700	******	***.,,	*****	
E E	0	Furreedpore							***			*****				******	*****	
Base	B	20	771	401	593	629	-0.10	101.7	75'1	8813	78'4	8316	-0.8	83	9	7-9	10	0113
96	Daces	en 199 h	809	507	623	000				79.7	77.0	77'1		85		9.0		19:95
	Madanainah					658	***	0013	74'8				******		103103		D00111	
,	Mymensingh	Mymensingh	*****			***	***	000	000	***	***	10000	600 * 1 *	******	******	*****		***
4 0	Bogra and Pubna	Serajgunj	*****			***	0.0.0		***		4++	*****	*****	*****		*****	*****	***
2	Rajshahye	Rampore Beau-	715	402	521	899		10216	78'1	89.8	87'8	96'6	400141	78	*****	4.9		7.60
BERGAL	Discounce	This are a second	637	398	495			0011		90'3	77.0	83*9		60		6.6	******	12.81
4	Dinagopore	D	687	413	536	***	000	99.1	75.1	80-9	76'8	83.3	*****		******	6.4		10'96
ORAN	Bungpore Julpigoree and Cooch	Tulmlesses	400	202	303	***	***	95 6	72'6			83.4	*****	81	******	77	******	38"63
100	Behar.					***	***	96.9	78.1	88.6	76'2	0.0 %	951000	81	•		*****	
(	Darjoeling Hill Tracts	Darjeeling	23.006	22.833	32.900		***	70'6	* **	65-7		*****	40000	93	*****	9.0	464000	80.31
4	Purnenh and Borth Bhaguipore.	Purnesh	20.011	29:300	29.452	573	-034	10813	73'4	8017	78:3	83*6	+0.8	78		7'3	+073	9.07
T BEHAR	Mezufferpore and Dur-	Durbhunga	599	276	483	599	+019	103.4	79'5	96'2	70'7	86*2	-0.4	78	6	6.8	+0.8	19'07
ORTH	Chumparum	Motiliari		*****	111	***		98.8	***	90'6	***	*****		78	*** **	1'3		3'05
2 {	Sarun	Chupra	*****	*****	***	001	***	***	***	•••	***	040000	*****	*****	*****	000111		<b>\</b>
5	(	Dehree	93 387	123	216	566	***	100.0	64'0	93.1	79.7	88.5	104000	61	PQF + 4 +	5'4	*****	6139
4	Shahabad {	Buzar	468	206	843			106%	72'3	96.7	80.8	87'6		65	1 - 1 + 1 +	4'4	40404	5'34
Break	Gyn	Gya	372	28'970	185	555	-031	109'2	68.3	9810	79.7	85'8	-20	84	-1	6.3	-3.1	14'57
五	Patna	Bankipore	888	29:230	399	800	002	109'6	73.2	96'8	79'9	881	-1'4	60	-0	7.1	0'0	14'73
South	South Bhagulpore and Monghyr.	Bhagulpore	691	311	416	559		106.4	60.0	90°8	76'3	83.0	******	81	84000	6.9	101000	18.18
. [	Sonthal Pergunnalis	Naya Doomka	*****	*****	***		.,,		***	000	***	P 0 0 0 0 0		400000	*****	101111	*****	***
-	Ĥasaribagh	Hasaribagh	37'605	447	27.577	509	005	100-5	70.7	91.3	76.3	8312	-0.8	63	~6	6*1	******	7199
NAO-	Lohardugga and Man-	Ranchee	*****	*****		700			***	***	417	***	*****	*****	******	******		
2 1	Singlihoom	Chabana	*****	******	***	***	498		***		***	094	*****	******	825714	621014	******	194

Bengal for the month of June 1883.

			DIST	TRIOT OBSI	ERVATIONS	3.					
				RAINFA	LL.						
		Of month,				Bine	o 15th Mn	y.		Representative	DISTRICT.
Mean of dis- krut.	Normal mean dutrict.	Variation from mean.	Number of rainy days.	Normal mean num- ber of range days.	Mean of dis- trict.	Normal mean of district.	Variation from mean.	Mean num- b-roframy days,	Normal mean num- ler or raing days.	postititis.	
								,		Canalana	
	8.00	+8.02	13.8	11.8	17'91	10.20	+7:33	9 = 10	510110	Gopsipore }	Pooree
17:05			14.7	11.0	20'75	10.90		15/8	15:3		1
16.95	19:76	+6.20		i			+10.19	21'4	15-1	Cuttack	. Cuttack
17 68	7:36	+10'42	16.8	11.3	20'30	9146	+10.61	33.0	16.1	Balmoro	Balanore
9.21	9.75	-0:24	19.0	13.9	11:77	13 41	-0.64	18.7	16'7	Saugor Island	South-West Midnapore and South 24-Pergun-
7.67	8.00	-1.03	12'3	12'8	9'17	12:04	-3'87	14.3	17:2	Midnapore	Midnapore
9197	10108	-0.08	16'7	16.1	11'00	19:06	-2'06	20*1	31.8	Calcutta	24-Pergunnaha, Howrah, and Ho whiy.
6186	9105	-0.30	14:3	13:5	13.03	12.50	+0.74	17'3	18.2	Burdwan	Burdwan
38:40	1,0198	+1'49	16'0	15.4	15.10	12.68	+3.93	20.0	19'5	Ranigunj	West Burdwan, Ban- koom, and Beerbhoom.
9.26	9:44	+0.18	14.0	13'1	13.79	12:15	+1'64	20.8	17'4	Berhampore	Moorshedabad
8.01	10.83	-2.32	13.8	14.3	9.73	13:82	-3.79	19.0	10.4		Nudden
9 04	12.73	-3.69	17.6	17.3	12.62	16'33	-3.68	82'5	23.2	Jessore	Jemore and Khoolna
43.63	29187	+14'25	23'0	21.1	81*74	34.73	+17'01	80*8	27.6	Chittagong	Chittagong
18.63	19:47	+0.12	2610	21.5	24.93	23'51	+1143	84'5	2719	Domagri	Chitingong Hill Tracte
16195	20.75	-8:80	33.3	90°5	19.68	25.12	-5*44	28*3	27.3	Barrisal	Backergunj
39:20	38.08	+11:12	31.0	19.8	48'03	83.83	+9.10	30.0	27'3	Noakholly	Nonkholly
7:99	12:91	-4.92	17'0	18.1	11.78	17.51	-6.73	23/8	34.3	Furreedpore	Purroed norm
7.83	18:33	-5.49	37.7	17.7	10.10	18:20	-8.01	23.4	2318	Dacca	Ducon
14'68	17'40	-3.74	81'0	21.0	19.59	23'62	-3.03	27.3	28'0	Commillah	Commidah
R133	17.0)	-8.60	17.0	1913	12.23	21:36	-0.14	23.2	36:3	Mymensingh	Mymensingh
0.10	19/80	-4128	1218	1816	12:33	10:30	-4:06	17'8	31'2	Sernjgunj	Bogra and Pubna
6.88	10.70	-8'83	16.0	26'4	10'41	13:48	-3'07	20.7	1819	Ramporo Beau-	Rajshahye
10.78	18:29	-2.23	17.5	15.4	13.33	19.10	-5.87	21.0	19.5	Dinagepore	Dinagepore
14'85	99:00	-7'15	18'8	17:3	31.10	29.18	-7.88	8418	24'0	Rungpore	Runspare
20.82	32.81	- 6'26	19:8	28'4	34.43	49.42	-7'97	8013	81'9	Julpigoree	Julpicoreo and Cooch Being.
43:80	36'17	+7*13	23.2	34.4	46.69	44'95	+1'64	83'5	34:4	Darjeeling	Darjeeling Hill Tracts
7:5:11	11'89	+11'57	18:4	11.6	37'67	13.85	+14'13	15.0	147	Purnoah	Purneali and Norti. Blugulpore.
	714	+7'97	11'5	9.3	15'95	8°37	+7*58	12'8	11:3	Durbhunga Motihari	Mozusserpere and Dur- bhunga,
1.78	9:43	-8'67	9:8	9.8				13'0	11.4		Chumparun
9.72	6:63	+8.10	12.8	61-6	9:85	7.51	+8'84	19:6	91(1	Dehroe	Saruri
7'31	A-4.1	A. 3 *9/7	11:9	B+D	7:83	F-0/7	+1'86	3490	10.0		Shahabad
10.90	8:44	+1*87	11.3	8.0		5.97		14'0	10.8	Buxar)	0
10.98	8:41	+5'18	1019	8:0	11.98	6.40	+4:77	123	9'8	Gyn Bunkings	Gyn to g
	6-01	+10'57	10.9	8:0	10.01	7:30	+9:34	11'6	10.0	Bankiporo	Patna
11:45	9°21	+3'94	18'0	10'5	13:39	11'08	+3'63	16'0	160	1	South Bhagulpore and Monthly c. Southal Pergunnaha
	0.41	7000	200	100		22 40		40.0		and a southern, .	)
7129	8.30	-1.10	12'8	13'8	0.21	9:90	-1 39	16'0	17.8	Hasaribagh	Hazaribach
19100	7.87	+3:13	14.5	18.6	11'94	9104	+2'90	36'3	17'1		Lohurdunga and Man-
8146	8146	-0.8	15'0	16'3	9.99	10*71	-1.fu	90'0	81:7	Chaibama	Singbhoom

# Table of Rainfall recorded at Stations

etean orical	District.	Station.	1	2	3	4	8	6	7	8	9	10	11	12	13	16	15	10	17	18	10	8
4158A	Puoree	Poorce Khurdah Banpur False Point	0.72		0751	0.07 0.12 1.67	0:10	***		0'80	0.10		0°25 0°90 0°16 0°04	0°43 0°74 0°97 0°95	1'81 2'04 0'90 0'04	0°71 0°97 1°89 1°85	0.08 0.95 0.26 0.16	0.54	0.03	0.21 0.43 0.03 0.10	0.28	0
23	Cuttack	Hookitels Jugataingpore Banki 'uttack Kendrapara	1.88	0.70	***	0:70	0.02	100	0.34	0105	0:60		0'10 3'47 0'30	0°80 0°86 2 00	0.00	0 72 1 05 2 10	0.40	***	010	0°13 0°12	1*00 0*10 0*47	
	Balasore	Jajporo  Chandbali Bhuddruck Sorah Finlasoro Jelinsoro Baripodah	0°70 0°64 0°10	6:70 0:85 0:20	0'86	1:20 1:18 0'20	9.15	***	0.60	***	***	0.08	0°85 1°20 0°00 0°15 1°88	0.76 0.44 0.42	0:50 0:51 0:50 0:12	1'10 1 50 0'25 3'14 2'00	0.08 0.08 0.30 0.30	0.20	1.50 0.34 0.35 0.85	0.87	0°20 2°20 0°08 0°15	7
TTR. WEST	Midnapore	Contai Saugor Island Tumlook Midnau-re Ghattai	0.03	[41+] L	***	0.05	0.12	0.77 0.50 0.02	} 		0.24	0°67 1°07 0°82 0°07	0.70 0.98 0.88	0'47 0'20 0'61	0.87	1:24 0:95 0:33 1:53	0°17 0°15 0°70 0°16		0.70	0.48	0°70 0°17 0°76	
	24-Pergunualis	Diamond Har- hour. Alipore Jail Barrackporo Dum-Dum Barracet	1190 0145 6189 6150	0°04 0°57 0°27	0.44 		0135 0151 0167 0 12	0.21			***	0128 0188 0109 0100	***	0*08 1*05 0*40 1*00	0.40	0°42 0°83 8°65 8°28 8°48	0.05	0.13	0.00	0°09 0°02 0°57 0°31 0°31	0'35 0'47 0'29	
٧,	Howrah	Howrah Mohesreka	0.90	444	0.02	6000	0.17	0.23	***	0.87	***	0.02 1.46 0.28 0.02		0108 0109 0109	0148 0148 0141	0°51 2°48 0°36 8°77	0.64	0.4045	0.55	0°14 0°33	0.33	
-	Burdwan	Hooghly Jehanabad  Culna  Burdwan	1'20	0.71	***	1'33 0'81	0.68	0.16	***		1.62	0.08	0 43 0 09 2 53	0.32	0.99	1'50 1 72 0'27 1'81	0 23	0.01	0.01	0.03	3.09 3.09 3.09 3.09	-
	Bankoorn	Rancegunge Bankoora Bishanpore	0104 0183	***	***	0:18	0143	0104	***	444	0.00 1.03 0.82	0:11	0'07	0°19 8°23 6°79 1°04	0°24 0°02 0°42 0°43	0.72 0.72 0.72 0.72	0°70 0°84 0°47 0°20	0.10	0:84	0:42 0:42	2.73 1.04 6.45 1.87	-
	Beerbboom	Kintra  Bh. Soory  Hetampore	011	***	***	***	***	0 20 0 47	***	***	0.00	0.00	0.56 1:17 0:34	0°72 2°98 0°68	0,(12)	0'25 0'41	114	0180	0.03	1.85	0.25	
	Nudden	Bongong Ramagaur Kishmaghur Chaondanga Meherpere Kooshtea	1760	0.76		0196	0.10	***			2°70 0°07 0 39	0.03	6°25 4°51 6°69 6°35 4°16 2°86	0180 0186 0196	0.41	0°70 0°82 0°12 0°24 0°40 0°41	0185 0188 0140 0150	0°15	0.80	0'43 1'81 0'02	1°49 0°83 0°82 0°69	-
	Khoolus	Satkira Fagarhat Khooina	***	***	0/90 0/03 0/34	0.41	0.20	0'95			0.12	0:34 0:45 0:41	0'31 2'53 1'40 0'31	0.10	0*05	0188 0102 0105	1:10 0:02 0:39	0'48	0.15	0.00 0.09 0.09	1.05 0.21 0.31 0.11	-
	Moorehedebad	Justice Hall Manager Haut	***		0°37 0°37 0°10	0'73	0.70				0'01	,	1.27 1.71 0.50	0141 0116  0130 6786	0.30 0.13 0.43 0.43	0 11 0 18 0 05 0 12 0 06	1.12 0.47 2.65 0.20 1.43	0.34 0.42 0.08 8.77	0.04	0.06	0165 0165 2166 1143	
		fighting or fallingh Asing pore Laisem			0.10	0:86 0:69 1:69 0:65 2:80	0.02				1'42 1'08 1'28 1'00 0'21		0'84 0'41 0'09 0'08 0'08	0'91 0'14 0'24 0'06 0 15	0°24 0°11 0°19 0°27	0106 0102 0105 0106	0138 0 88 0119 0115 0115	0 11 0 65 0 13	1°27 40'41 0'46	2 18	1 00 1 00 1 10 1 10	
1	Chittegong Chittegong Rill Tracts.	Cox's Pazar Chittagong Rangamati Ruma	0:07 1:16	0.03	0°71 0°95	0'08 0'78 0'37 3'30	0:24 0:01 0:02 1:05	011	0°03 0°31 0°76	0°32 2°59 0°54	3'12 3'06 0'15 0'60	2 12 2 12 2 14 0 15	0.30	0.25	1°44  0°55	513 201 0183 0185		1.62 2.84 2.00	8:17 1:93 1:00 1:05	61617 2176 0194 2103	0.193 0.193 0.193	-
- 1	Backergunge	Patuakhally l'arozoporo Burrisal Lliola	0.04	0103 0103	0 80 2 45 6'08	1'16	0.50	0501 0501	(9*220)	0.08	0:40 0:33 0:80 1:04	0'1U 0'01 0'14	1°10 0°20 0°22 0°58	0'85 0'95 0 05	0123	0:18 0:02 0:19 0:08	2.70 0.00 1.00 2.40	0.36 0.19 0.65 0.41	0'15 0'15 0'93 0'74 0'72	0102 0.02 0.01 0.03	3°70 1°00 2 09 1 35	
	Noakholly	Noakholly Fenny	***	0.44	0.12		4 85	f. to	8165	9'50 2 36	6.15 1.07 0.12	0.54 1.42	0.10	0.10	0.81	1:09 1:00	5'01 3'20	6 87 3'50 0'41	0.13	0188 4189 0188	0.38	
	Daron	Furreed, ore Goniundo Munshigungo Imees Narainnungo	*** *** ***	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.10	0 60 0102	0'48	0%1 0%2 0°02	***	0'59 9 05 1'73	0.07 0.10 0.20 0.24 0.33	0'35 0'50 0'44 3'16	0°30 1°05 0°50 0°43 0°77	0°15 0 05 0°10 0°10	0108 0128 0 01 0118	0°18 0°08 0°30 0°30 42°0	0.24	0.04 0.04 0.34 0.36	0.10	0.08		-
	Comille	Alamekgungo Comilia Chandpore Realmunberia	007	1.05	1.4.1 1.4 1.4 1.4 1.4	0'10	2'26	0 15	0*04	1100 0 05 0 15	0°03 0°77 0°94 0°17	0.000	010	Q*20	010	0°05 0°35 1°45 0°15	0'58 1'70 1'60 0'58	0°99 1'95 0'21	0.64 0.54 0.52 0.63	1 62 0 15 0 95	0°45 1°65 1°60 0°02	
	Mymensingh	Kishoregunge Aton Mytrensingh Jrumipure Nitrokona	1 491 189		•••	0103	0'61	0.21	0.00		0'30	2°81 0°46	3'81 1'36 2'26	0.07	0.04	0.02	1'40 1'00 1'05 0'73		0124 0134 2179 1 67	0:77	0128	ı

\* Not received from lat to 15th June 1888,

Explanation...indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left

in Bengal in June 1833.

21	\$3	\$3	24	86	20	27	28	20	30	Number of rainy days.	Average number of rainy days.	Total rainfall for the month.	Average rainfall for the month.	Henvirst raufull during the month.	Total rainfall from lst. anunry 1888 up to Sub June 1888.	Sverage rainfall from 1st January up to 30th June 1883.	Station.	District.	Mateorologi- cal division.
***	0'16	0.23	000000	0.03	0°90 0°11 0 33	0°34 0°20 0°54	0°60 9°60 8°68	9144 7 96 3146 5 36 4144	2:25 1 90 3 88 1 10	14 15 8 14 13	1810 2118 1612 1712 1712	18154 19122 11138 19197 13108	8:22 10:03 10:55 10:17 1	7196 5198 8 0 0 6148	20.75 21.74 11.45? 24.82	18:56 16:04 18:48 18:48	Pooree. Khurdah. Banpur Patsa Point. Hookitola.	Pooree .	ORISSA.
937 544 909 941 941	0°28 0°11 1°00 0°25	0°28	0.30	0°00	0°10 0°55 1°63	0:09 : 0:02   0:03   0:16	710 0 35 1 79 2 70 2180	4*90 6*36 5*61 3*60 1*98	0°30 1°20 3°23 1°90 3°15	18 20 11 13	1811 2214 1218 1613	15°19 28°00 16 62 18°13	1070 203 1070	6:40 5:61 8:63 2:15	29 57 10/22 26/24	9 16:63 15:67 19:16	Jagatsingpore Banki, Cuttack, Kondrapara, Jajpore,	Cuttack	
	2°20 0°24 0°20 0°60 0°60	0.10	1.80 8.38 1.12 0.13 0.19	0.13	1°10 0.57 0'10	9:25 1:34 0:22 0:44 0:22 0:23	3°25 1 76 1'50 0 94 3'40 1'12	4°15 0°16 1°69 2°65 6°00 1°60	3750 3755 2760 5764 0 65 2786	167 136 146 15	1814 1717 1616 1012 1612 2318	24°26 16°47 1°17 17'69 16°49	7199 8182 6120 9192 7157	\$115 \$185 \$460 \$113 \$1000	21 10 21 10 21 15 20 2	15/94 18/37 15/64 21/64 15/94	Chandbali Bhuddruck, Soroh: Ralas are, Jellas are, Barrpodah,	Salusore	
0'70	0.04	0.18	0°19 0°70	0.31	0.40	0147 3100 0190 0168	0:20 0:27 0:18	8*76 0:17 2:46 2:60 0:98	0°72 0°36 0'36 1'34 1'31	15 15 9 15 15	181 2619 1230 1076 1978	10°57 12°14 7°50 7°36 8 15	11:06 11:39 8:88 10:37 9:78	3:76 5:69 2:10 2×10 1:53	26126 20164 1516 17120 14184	19728 19701 19754 20730 20702	Contai Sangor Island Tambook, Midmpore, Gintal,	Midnaporo .	BENGAL.
0.41 0.01 0.01 0.01	0°02 0°02 0 57 0°21	0.04	0.19	0.19	0 16	0°21 0°58 0°17 0°18 0°23	0.65 0.05 0.50 0.07	0°62 1°20 9°65 0°76 0°72 1°21	0°85 6°70 0°80 0°80 1°50	15 19 12 18 18 18	22°5 24°2 19°6 22°1 20°0 20°1	5781 9740 10 20 9729 9911 18783	9°89 10 03 8 08 10°02 10 00 10°51	1°10 1°80 8°85 8°25 8°48 2°58	16'49 17'24 30'83 17'75 17'36 23'28	21 28 10 28 20 70 20 90 22 13	Diamond Her- bour. Alp re Jail. Barrackpore. Dum-Dum. Barasor. Busearhat.	24-Pergunnalı	
0:10	0.01	*****	0°35 0 81	.0°13 0°07	0.40	0.01	0.20	1.00	0.05	18 18	21.2	9.92	11'30 11'28	2:8s 2:8s	10:97	22.28	Howrah	Howrah	
0°12 0°01 1°17	0134 7103 0132	0.63	0.14	0.82	0.08	0.03	0.54	0°83 0°41 0°73	0184 0171 0183	20 10 13	28'8 21'4 10'2	10°86 8'70 9'52	10 49 10 49	3'77 1'58 2'60	20163 1 5 82 15 95	19'67 92'87 20'37	Sarampore Houghly, Johnstalad,	Heoghly	
0.05	1.03	2.93	000000 000000 40 030	0.18 0.18	*****	0107 0100 9130	07/3 07/4/4 117/10	0180 0187 0109	0188 0176 0105 0120	18 16 14 15	15'6 21'2 18'7 21'3	8:30 12:05 5:61 15:75	8'60 10'03 9'72 8'64	2°53 8'03 2'16 5'70	10:14 28:05 15:95 25:60	18168 20162 10168 15125	Culna Burdanu, Cutwo, Rancoguego,	Burdwan	
0'75 1'90 0'81 8'80	000000 000000 000000	0:14 5:76 0:25	0.10	******	004 666	0°13 0°27 2°20	0°15 0°31 0°10 0°07	0.82	0°86 1°55 0°25 0°71	17 1 b 10 12	20:0 16:0 19:7 10:3	7'20 12'23 12'23 9'31	9/02 12/17 10/63 11/67	1.68 1.88 3.76 2.20	28:60 16:85 22:98 16:95	17'87 21 79 15'56 15'10	Bankoora Bishenpore, Malautt, Khatra.	Bankoora	- 2
200	117	0.03	0.03	*****	0.90	0.99	0100	0.03	0.51	119	10.0 55.9	18.81	10.54 12'60	6°25 1°55	26°50 13°75	16:58 10:40	Bh. Suory Lietampore,	Beerbhoom .	
0.26 6.70 0.72 0.62 1.46	0°85 0°18 0°27	0:11	0 18 0 08 1 20	0100 0126 1119 0106	eret.		0°06 0°11 0°20 0°24 0°09	0°70 0°25 0°05 0°05	0.44	11 18 11 10 15	16'8 15'0 21'3 10'4 17'4 10'1	0°15 10°33 3°66 4°20 8°02 12°22	10°10 10°55 10°55 10°55 10°55 11°57	2°70 4 51 0°78 1°15 4 10 2°88	16748 26723 1673 1673 1673 1673	22'03 20'07 21'77 24'85 21'52 25'14	Bongong Ranoghat, Kishinghur, Chosadauga, Meh-rporo, Kooshten,	Nuddon .	
1116 · 0127	1.00	0'18	0.02	0.41	*****	0.10	0.23	1:20 2:51 1:51	0'82 0'85 0'66	22 13 21	2112	10:87 9:60 12:26	15'24	1:20 2:63 1:66	95 35 14 75	25'11 25'05 25'08	Bagirliat.	Khoolna	
0°01 0°01 0°70° 0°05 1°05	0°81 0°10 0°08	0145 0145 0 06 4185	0.46	0103 0133	0.10	0.07	0°10 0°18 0°18	0.10 0.00 0.10	0°16 0°29 1°20 0°96	14 19 17 16	1877 2373 1878 2273	5'72 6'90 7'00 10'80	11'54 13'39 15'21 11'06	0.88 1.13 1.20 2.08	18/17 19/22 19/09 27/24	25 92   26 53   20 53	Khootna. Narnil Josaore. Jhanidah. Magoorah.	Јенюте	1
0.03	****** ****** ****** ******	2°00 1°91 0°44	000*** 000*** 000*** 000*** 000*** 000*** 000*** 000* 000** 0000* 000*	**************************************	1'14	0°20 0°63 0°96 1°09 0°70	0102	0107 0104 0106 0102 0102 0104	0°04 0°11 0°18 0°16	15 1. 13 8 19 14 18	21'0 19'8 18'7 17'9 19'0 18'8 17'8	9'do 16'29 5'74 5'74 9'11 5'03	10.01 10.11 0.89 6.89 9.83 9.83 9.83	2:90 8:27 1:98 1:94 1:95 2:18 2:11	16:70 15:4 17:1 18:00 17:4 16:49 15:30	18°37 10°02 19°27 17°13 17°29 10°81 10°56	Kandi Rimpore Haut Berhampore, Laibush Azingunge, Jungipore, Laigota,	Moorshedsho	u.
0.90	2'08 0'08	644010 614000	400 614	0.59	0.15	0.18	6146 6126	141	4.38	25	20.3	49'48	36.10	6°67 6'37	67.80	51.91	Cox's Bazar Chittagong.	Chittagoug .	EAST BEN-
0°70 0°12 0°16	0°17 0°56 0°67	0.13	0.01	0 10 0 33	0°18, 0°62 0°53	0187 0104 2180	0°17 0 00 0°35	1°87 1°74 1°67	0°16 0°32 0°36	27 26 17	28.7 25.4 19.5	18:66 20:59 14:69	18/53 20/02 14/13	2.22 2.40 5.80	51.24 21.24	37°10 36°23 30°17	Rangamuti. Ruma. Agartola.	Chittagong Bill Tracts.	OAL.
1145 1.43 2113 2113	0.39	0.23 0.02 0.23	0'65 0'12 0'02	0%0 0:33 0:17 0:21	0 40 704 0 70 704 0 70 704 0 70 704	0°25 0°11 0°25 60°0	1°35 0°68 0°04 1°03	1°40 2°10 0°87 1°76	1.85 1.100 2.116 1.67	20 23 24 23	20°5 24°3 20°0 20°7	19.18 19.01 18.09	23:87 14:59 17:25 24:09	2.40 2.40 2.80	81°08 21°01 31°79 42°08	37-60 29-02 52-23 55-04	Patuakhally Porozepore Burrisul, Bhois.	Backergunge	
5.27 5.20	0°40- 0°83	44.448	0:89	*****	0.43	0'04	0.52	\$.20 \$.20	0138	92	20.2 59.8	97.00 39.10	21.42 21.40	6'07 6'48	62.21	42°28 45°50	Noakholly Fenny.	Noakholly	
0 10 0 10 0 74	0.17	0.46	0.12	U.09	001000	8178 8150 8127	0 82 0 18 0 10	0170 0120 0140	1:15 0:01 0:40	1 6 17 20	28'3	7'00 0'84 10'14	15'94 13'30 11'51	1.12	20177 20198 27 05	20.18 20.18 21.80	Madariporo Furreedpore. Goalundo.	Furreedpore	
0:93 C 1 F:07 O:40	0'00 0'31 0'10 0'75	0.17	0.73	######################################	9" d" ***********************************	0 145 1 145 0 7 5	0.51	0.13 0.39 0.01 0.20	0°10 0°- 9 0°27	17 81 22 15	19'6 21'8 20'5	7'47 8'81 10'04 4'53	13.52 10.40	0.03 1 88 3.16 0.76	21 70 23 12 7 19 14	36.40 35.02 5	Munshigungo Daces. Namingungo. Manokgungo.	Daces .	
1:22 0:75 0:16	0.05	11:03	0.00	0:40 0:45 0:15	0.11	0.20	0.02	2'46	0.05	25 111 110	\$3.4 \$3.0	20:76 16:30 7:71	19:49	2:00 2:00	41/80 85/85 - 40/12	39734 37734	Comilla Chandpore, Limbonianberia	Consilin .	
6786 8703 9756 1762	0'06	0 17 0 47 0 48	0.08	0'08 0'42 0'10	0.00	0.18	0°21 0°28 0 07 0°11	1'00 0'42 0'40 0'10 0'17	0.10	10 0 23 16 30	21'6 16'4 22'1 16'6 7	7'89 8'87 9'80 8 67	14.89 17.89 17.86 18.80	8.81 8.81 8.81	22.40 22.40 22.40 22.02	89:50 25 lu -41:73 50:75	Kishorogunge, Atia, Mymensing, Jammyere, Netrokout.	Mymensing .	80

Table of Rainfall recorded at Stations

eteorological division.	District.	Station.	1	2	3	6	5	e .	7	8	Ð	10	11	12	18	14	15	16	17	18	19	
ORTH BRNGAL	Markey	Pubna	_	1	0.75		1163	_			-three		0.80	0'12	0.08	0.04	0.51	0.11	1.32	0 0 6	0.19	0
	Tuopin	Serajgunge	***		0.32	1			.,	***	***	***	8.10	***	0.02	>=0	1'00	0.80	0.42	0.02	-	
	Hoggra	Sherpore . Nowkhilla	***	***	***	0.08	0160			***	***	0.05	1°80 0°85		0.03	0'87	0°26 0'81 0'78	0'65		0.01		-
		Panelbibi		i		***	***	***	0F-61	***	100	0.016	2.20	0.03	0.00	0134	0.58	2.13		0.19		
	Rajahaliyo	Beauleah Nattoro	***		**	1:33	0.45	***		414			9*05	0.30	0.00	0.11	0.40	0.12	0.00	***	#19H	
	Mnidah	Muldah	***	4 5 0		1.03	***			***	0:02	***	010		0.25	0.85	1.89	11/12	1'87	0.71	0.48	
	Dimmerpore	Mohadebporo.	***	***	***	0.19	0:22	,	4 6 1	**	0/03	0140	0'63	0:91	100	0.04	1100	1.10		0.89	0.14	
		Raigungo Dinageporo		***		0.76	41.05	***	***	***	0.33	0.17	0794	***	0.44	0.13	0.03	7.03	0.41	0.212	5.24	
		Balourghat	++/	***	***		(0.34)	417	***	649	500	4000000	1.25	***	0.33	0.10	0'24	0.80	1.00	1.00	0.19	1
	Rampporo	Bhownnigunge Rungpore Kurigenm	***	***	0.91	030	0°72 1'00 1'00		0128	***	0.08	0.05	1:03 0:21 1:00	444	0.31	0.80	0107	1.20 0.42	0.42	0.00	UTUS!	1
		Bagdogra			440	***	0.44		.,	***	0.05	0.22	0.07	112	0.08	0.81	0*09	8.47	1.20	0.60	0.74	1
	Julpigoree	Julpigorea	0.15			1.21	100	***	0.30	***		0 32	0.02	***	***	0.01	0188	3.28		2'37		1
	Cooch Behar	Dinhatta Cooch Behar Micklymneg	***		0.50	3106 4150 1123	0.35	0.03	0.76	***	1'00	0.483	0°97 0°05 0°18	0°20	***	0:03	J.11	0141 0147 1158		0.13	0145	
		Matabhanga	***		0.10	1.45	0.11	0.52	111	***	1:34	0.11	0.02	***	0 1 8	***	0174	0.83	8'67	0.55	1.86	
	Darjeeling Hili.	Buxa Darjeeling Kalump ug Silguri	6'35	0'89 0'85	1135 0182 0190	0.72	30°0 40°0	er03	***	***	0°22 1°15 0°71 0°60	0130	0.03	0.00 0.00 40.0	0 13	0°20 0°25 0°44	1.522 2.18 3.30 1.27	0.40 0.19 0.19 9.51		0.00 0.00 0.02	3.18	
RTH BRUAR	Purmenh	Kissongunge Arracezh			***	* 6 *				***		***	**		0.02	0°07 0°47	0.13	3.38		0.00		
		l'urneau	***	***	***	1,50	***	0.21	***	***	10'01	***	***	,,,	***		0.18	2.45		0.43		
	North Bhagul-	Muddapore	***	***	•••	0.21	***	4 * *	***	v+4		**	***		***		0.20	0170		3.10		1
	2	Soopool			***	***	***	0:13	***	***	chim?	***	***	***	***	0.18	0.30	2.08	8.13	1'83		
-	Durbhunga	Durbhunga	***	***	1.10	0:66	***	0.11	111	***	0.77	***	444	***	***	111	0°53 0°40	1.05		2 5:	0.77	
	Mosufferpore	Sitamarhi		487	***	0.25	***	0.24					***			***	0.94	0.75	2.75		0.08	ı
		Mozustarpore Hajipore	***	***		***	***	0.14	***	***	:::	***	***	***		0.08	0.80	4.91	12 4y	0162	0.14	
	Chumparun	Motiharl		***				1'05		***			***		***	1'08	0.01	0.30	0'70	144	176	
		Gopalgungo Sewan			0210		***	1.05	***	***	0.10	***	***		0°03 0°32	0'01	0.80	0.79	0.03	*10	0130	
THE BRHAR	Ohekelest.	Chuprah			0111	0.02	***	0100		***	0.01	***	2440	1.24	0.34	0.33	0.07	3.22	1'48	***		1.
	Shahabari	flitteroull	.04	***		***	***	0.15	100	0:21			1'00	0.20	0.33	0.10	2 50	0°75	***	***	010	
		Arrah .	***	***	0.08	444	***	0.11	***	0.46				***	0.42	-01	1,20	4 643	. 0.98	***		l
	Gyn	Aurumpulud Opa Nowadah		***	***	***	***	0138	771	***			0.12	1 31	0138 2123 0.55	0.02	3.00 1.01 0.88	9 0 6	0'21	0101		0
		Jeimmind	***		**	9.00	***	0'15	***	***			444	0.07*	0.00	***	1.50	7.65	0.25	,	***	ı
	Paton	Patria Dimpore	,	40.0	0'03	***	***	0.23	***		***	***	49.5	0.03	***	0.08	1123	6:35 5:20	3 60		0.07	1
		Burrh	***	***	1*00		441	0.13	***	***		***		0.084	***	0'10	517 016	8170	9,10		0.08	1
	Monghyr	Hegrooserai Mourhyr			***	* ***		,		***	0.01	-100		0.01		6.50	0.84	1:80	3'82 1'58		0.20	
		Janua				***		0.48		***	1.10		***	0.10	***		1.52	0.13	0.81	11.	1	ı
	South Blugul-	Bhagaspore			0.13			***	***		1.91	1 6 4	***	0.12		***	0.43	5*40	0.10	1 '83	3 3 4	А
	Southel Per-	Rajmehal		***	*11		1000	0.07		***	0110	***	***	***	***	0.84	0.38	3100	0.10	***	1.00	1
	Southel Per-	Godda Pakour	***		0.11	0.14	0'87	411	444	0120	0.31		447	0.30	494	0.94	2:11	0.13	0.79	3 0	11 77	5
		Nya Doumka Decediur	***	***		0.03	0.00	0.12		401	0.00	***	0.03	0130	0.03	0186	5105 3165	0.43	0.09	0.71	0,730	8
	99	Januara	***		0.60		***	0.18	***		U*47	43.0	1.18	0100	414	0:31	5.80		0.15	0.73	2.10	d.
UK. NAG-	Hazaribugh	Hazaribagh   Beemtagarh	***	***		10.0	114	0'60	111	100	0.46	***	0:01	0108 1118 0115	0.02	0.30	5.15	0.18	0.13	0.35		1
		Mowder Hills	• • • •		010	0'40	***	111	***	***		0:10	0.13	0.14	0.122	1.13	1:00	0°05 0°20	1'29	0.68	***	1
		Ranchi	***		010	0 82		**		100	***	0.22	0180	0184	2100	8.88	1.10	0121		111	i	1
-	Sinubhoom	Palamow	***	***	0:01		no.	***	440	***		***	***	0.18	1:08	0.53	2.47	0,94	***			٠
		Purula	***	***	0.09	,	0.08	***	010		0:06	0105	1,08	0.00	0.18	0'14	0.84	0120	0-81	0.80	0.3	3
1	Minnthiopm {	trobundpore ;				0.11	***	*** [	444	***	***		]	0.07	0.18		4.21	10106	444	0.34	uj 1 0	7
																S	upple	men	101	he	Ra	22
		Burnit . 1	0°50	***	0'80	000		00+	***	ļ	***	***			1	1	1 400	1	1		110.3	
		Julianto Entre	0.50	0.18	0.53	1'20	200	***	***		0.00	***	0.09			***		101	441	***		
																					100	

# in Bengal in June 1883-concluded.

21	23	23	36	25	26	27	28	29	80	81	Number of rainy days.	Average number of	Total rainfull for the month.	Average rainfall for	Heaviest rainfull during the month.	Total rainfall from 1st January up to 30th June 1883.	Average rainfall from 185 January up to 20th June 1865.	Station.	District.	Meteorofoxi- oul division,
101	0°06 2'00	0'08	0'25	*00-44	000 +04	6.22	0.20	0141	0°81 0°06		19 11	2017 1515	9185 9162	12:24 10:05	8.35	24.54	89.19 80.88	Pubna Sernjaunac.	Pubna	VORTH BEN-
0109 0114	0 06	0 35	0.10	0 06	00000	0°57 0°13 0°03	0.88 0.55 0.09	0.08	tires		11 17 19 10	1814 2011 1912 1613	5°53 6°50 7°31 9°63	12:30 12:30 11:23	1:30 1:02 1:78 2:30	18 96 18 96 19 13 10 02	25°43 24°00 20°02 21°43	Sh rpore Nowahilla, Bovra, Pandiothi,	Hogra	
88°C	*****	0:21	0.81	124004	420 400	0.08	0.08	0.09	0'80		17	10°P	616n 4185	10'90 10'-p	2:28	15 70 21 83	20176	Beauleah Nattore,	Rajahahye.	
	0.00	0.00	0.65	0.53	0.83	0103	0 39	0 02	0:08		20	1915	9:68	10.05	1:63	14'57	17'49 23'71	Maldah	Maldab.	
17	0*04	0.08 0.08 0.89	0°24 0°45 1°95 0°20	0°38 0°71 0°40 1°21	0°81 0°07 0°19 0°16	0.00	0°12 0°02 0°43	0.05	0.13		10 16 20 15	15'8 15'3 10'8 19'4	6°31 11 33 12'47 12'01 10'58	13/55 15/14 17/56 17/56	1°10 2°45 2°54 2°64 3°40	11:44 15:00 22:10 25:02 15:35?	19:05 24:26 28:71 9	Churamen, Gaigunge, Dinagepore, Baloorghat,	Dinagepore.	
2150 1158	0 08 0'05	1.07 0.81 0.85	0°97 2°00 0°57 1°79	0:67 0:15 1:89	0:01 0:66 0:30 2:06	***	0.90	0.01	0'14		19 20 19 17	15'0 18'9 14'9 17'3		15:92 21:45 27:07 27:57	3°50 2°00 1°90 5°87	24143 21149 42134 84173	24165 36158 42189 44185	Bhawanigunge Rungpore, Kurigram, Bagdogra,	Rungport.	
0.01	1.04	2.92	6.28	1.76	1'92		***	***			18	21.8	33'85	20 90	6'56	48189	47:76	Julpigorea	Julpigoree.	4.7
0.88 3.00 3.73 3.73	1 0'08 0'71 0'27 1'21	0.13 1.91 8.15	0'76 0'14 1'22 2 53	0'65 2'73 4'78 2'61	8:04 8:74 1:82 8:78	0.01	0'30 0'41 0'16	0:15 0:18 0:09 0:17	***		18 23 17 23	19:3 20:4 21:5 21:5	13:87 25:80 20:26 33:20	\$1°18 \$5°50 29°30 \$3°11	3.06 5.74 5.75 7.78	80°82 67°67 60°61 80°51	52'46 57'18 48'42 53'48	Dinhatta Cooch Hebar, Micklin nac. Matabhanga.	Cooch Behar.	
1183 1104 1112 1108	88.0 88.0 88.0 98.0	8.78 0.78 0.10 8.60	8'89 0'38 1'45 0'90	8'88 1'04 0'83 1'75	2*14 0*58 1*42 1*70	0°46 0°40 0°18	1'25	1'82 2'07 0'20	0'85		2: 25 23	25'4 27'8 ?	47.08 59.42 32.69	47*17 25*07 P	6°24 9°15 6°21	89 39 51'80 40'049	82'83	Burn Darjeeling Kalimpong Silguri.	Darjoeling Hill.	
0.60	0.01	.0'37	0.17	6'25 7'05 0'63	4°20 4°05 0°31	***	0.01	0.18	***		12 12 16	20.1	79.97 54.97	16'26 14'00 11'92	5'25 7'04 2'45	20°84 33°87 14°99	24.74 22.89 18.16	Kissengungo Arrareali, Pu-neali,	Purnesh	NORTH BE
	0.10	*****	*****	10.50	0:23	***	0.80	0.42			12	15'5	39.91	6162	10-20	84.81	14'85	Maddapore	North Bhagul- pore.	
	0.07	310 0:08	0.08	5'30	0.09	0.02	0.19	0.08	0.03		10 11 13 14	17'1 13'5 14'2 14'8	14·19 10·10 16·30	9:66 7:84 6:20 8:67	5'89 8'18 '5'52 4'96	27.76 16:44 22:26 19:07	14:91 10:87 12:36 14:38	Tajpore Durbhunga. Madhubani.	Durbhunga.	+ 1
0 86	0°96 0°08	0.10	0.82	*****		0:18	***	***	0 06		10	11'8	7:32 20:00 15:65	7'98 6'84	2:75 12:49 9:39	11.68 23.62 15.30	13:89 11:44 10:77	Sitamarhi Mozufferpore. Hajipore.	Monuflerpore.	
1187 1188 1160	0 07 1'68 0'90 0 06	0°18 0°06	000000 000000 000000	0.81	0.40 0.58 0.58	0.08 0.80 0.87	0.03	0.01	***		9 8 12 17	17:2 18:0 13:1 15:8 10:2	8'24 4'74 4'30 7'88 11'87	7'12 8'14 8'93 7'54	1'46 1'88 1'05 1'80 3'53	30°14 10°82 0 45 10°49 13°84	18:59 14:26 12:50 11:32 9:65	Motihari Bettah. Gopalgunge. Sewan. Chupra.	Chumparun.	
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## METEOROLOGICAL AND RAINFALL SUMMARY FOR THE MONTH OF JUNE 1883.

JUNE is meteorologically the most important month of the year. It usually witnesses the establishment of the south-west monsoon over Northern India. The distribution of rain during the month generally indicates the chief features of the rains during the whole south-west monsoon period.

The south-west monsoon usually commences on the east coast of the Bay in the last of May or the first week of June. It advances northwards sometimes as a rainfall, and sometimes as a cyclonic storm. It is usually established in South Bengal during the first or second week of June, and if the conditions are normal, extends rapidly eastwards up the Gangetic valley to Behar during the second or third week of the month.

The circumstances and conditions accompanying its establishment are different in Bengal from what they are on the Bombay coast. The south-west monscon current is merely a remarkably steady and prolonged sea wind due to conditions and actions similar in character to those which produce the sea breezes of the hot weather. Its strength and persistence are not to be measured by the average force of the wind which on the Bengal coast is less than the strength of the local sea breezes of the hot weather months, but by the extent of the sea area over which it prevails, and the height of the atmosphere which participates in the motion. The Bengal sea breezes of the hot weather months commence in March, and are confined to the immediate neighbourhood of the coast. They gradually extend further south during April and May. They affect comparatively a small height of the atmosphere. But blowing as they do into the low and extensive plains of Bengal, their influence is felt over the whole of Bengal, and increases with the increased extent of sea area over which they blow. They thus give frequent thunderstorms and rain to Bengal, the amount of which increases during April and May, but the distribution of which is the same in both months, as it depends mainly on the geographical configuration, &c., of the country in its relation to the same winds. On the Benhav coast the high range of the country in its relation to the same winds. On the Bombay coast the high range of the Western Ghats do not permit any such continuous increase of action, as they form an almost complete barrier to the sea winds. Hence throughout the hot weather mouths the sea breezes at Bombay are confined to a very narrow belt of the coast, and affect a very small portion of the atmosphere as compared with the Bengal sea breezes. Hence also they very rarely give rise to storms or rain, and thus differ considerably from the corresponding sea winds in Bengal, although due to similar causes.

The development or transformation of the local sea winds of the hot weather months into the more important and extensive sea winds of the rains is very different in its character in the two cases. In Bengal there is no large or sudden change. The humidity increases slightly, the sky becomes more clouded, and rain falls more frequently. In those parts of the Province only which are beyond the direct influence of the sea breezes (Behar and Chutia Nagpur) is the change a large and marked one. On the Bombay coast, on the other hand, it is a change from sultry weather, clear skies, and local winds to strong general winds, overcast skies and heavy rainfall. Hence in Bengal the change is a development of previous conditions, and it is rarely possible to assign a particular date for the commencement of the It is on the other hand a transformation, a reversal of conditions on the Bombay coast, the date of which can be assigned exactly. In Behar it may be added the commencement of the south-west monsoon is usually shown by a steady of increase in the humidity

of the air for some days previous to the occurrence of rainfall.

The Bombay branch of the monsoon current usually sets in about the middle of June, and advances slowly across Central India and the Central Provinces where it is generally not fully established until the end of the month. When it is fully established it generally not fully established until the end of the month. meets in its eastward progress at an obtuse angle the current from the Bengal coast advancing up the Gangetic plain. Hence arises a very considerable amount of interaction, the extent and position of which depends on the varying relative strengths of the two currents. Consequently a large part of the Province of Bengal is, during nearly the whole of the rains subject to the influence of, and receives its rainfall from, both currents. This, however, rarely occurs before the end of June. Hence the rainfall of the mouth of June occurs under similar conditions to what it does in April and May, with the exception that the current is much stronger and deeper, and more largely charged with aqueous vapour. Consequently the rainfall distribution of the month of June is similar to that of the preceding two months. The lines of equal rainfall run north and south, or parallel to the hill barrier

of East and North Bengal, and the amount decreases rapidly from east to west.

It is an important fact that the rainfall during the south-west monsoon is not a steady action. It occurs rather as a series of pulsations or waves of aqueous vapour condensation and rainfall. The intervals between the bursts of general rainfall are extremely favourable to the formation of cyclonic vortices at the head of the Bay, which advance landwards across the Bengal or Orissa coast, and give heavy and occasionally excessive local rainfall to the districts over which they pass. Hence the important meteorological features of the month are the character and date of the commencement of the south-west monsoon, the occurrence of cylonic storms or disturbances, and the distribution of the rainfall.

Establishment of the South-West Monsoon.—The monsoon commenced very feebly on the Araean and Pegu coast in the last week of May, when moderate rain fell, and continued until the 3rd of June. The first considerable fall of rain with rough weather occurred on that coast on the 3rd and 4th. It increased in amount and extended northwards. At the

same time the humidity began to increase in Behar. Rainfall was fairly general over South Bengal during the second week of the month, more especially after the 11th. The rainfall extended over the whole Province during the next week. In Behar and Chutia Nagpur the rains were ushered in from the 15th to the 18th by a cyclonic

disturbance of considerable intensity, which gave remarkably heavy rain.

Barometric depressions.—Two were formed during the month at the head of the Bay. The first was generated in the north-west angle of the Bay, quite close to the Balasore coast, and in the Balasore and Midnapore districts on the 13th and 14th. It gave moderately heavy rain to North Orissa and South-West Bengal, but was of little importance until the 15th, when it had advanced into South Behar. It then apparently began to draw large supplies of aqueous vapour from the monsoon current, which had by that time advanced into North Bengal and Behar. It moved across the Patna district into North Behar and passed into the northern part of the Purueah district, and gave excessive rainfall attended with heavy floods over a large part of Bahar, more especially the Gya, Patna, Mozuffer-pore, Durbhunga, North Bhagulpore, Purneah, and Darjeeling hill districts. It broke up on the evening of the 19th or morning of the 20th in the Purneah district. The second depression and cyclonic vortex began to form on the 26th of the month. It followed a brief period of light winds and partial rainfall. Its existence was first indicated by the wind direction at Saugor Island on the morning of the 26th, when it was to the south-east of that station. It remained stationary until the 28th, during which period it gradually increased in intensity. It crossed the Balasore coast on the evening of the 29th, and passed across the North Orissa hills into the Central Provinces. It was chiefly remarkable for the very low barometer at its centre (29.1") and for the very strong winds (almost of hurricane force) experienced by ships which passed through its eastern quadrant in the Bay.

Rainfall of month.—The average rainfall of the month exceeds 5 inches at all stations except Buxar, for which it is 4.7 inches. It varies from 5 to 10 inches at all stations (excepting Buxar) to the west of a curved line running through Rajmehal, Berhampore, Beerbhoom, Calcutta and Contai, and decreases from east to west. Between that line and a line running through Rungpur, Mymensingh, and Kishoregunj, along the western flank of the Tipperah hills, and through Chandpur and Patuakhally, the average rainfall varies from 10 to 20 inches in amount. To the east of the latter line it exceeds 20 inches, and over the greater part of the Cooch Behar district, the Bhotan Duars and the Darjeeling hill district, and also in the Cox's Bazar district in South Chittagong, it exceeds

If the first day from which general monsoon rain occurred be accepted as the date of the commencement of the monsoon, the following give the dates for the Provinces for the present year :-

East Bengal June 8th. South-West Bengal 9th. 000 North Bengal 10th. Orissa. 10th. . . . 12 ... Behar 14th. ... 33

The local distribution of rainfall for the month was very irregular. During the first week of the month, local showers were received in nearly every part of the Province. During the second week the morsoon current gave fairly general rain commencing from the east coast and advancing northwards and westwards. The depression which formed at this time gave very heavy rain during the third week over Orissa and the greater part of Chutis Nagpur and Behar. Light moderate rain also fell in Bengal. During the fourth week the second depression which formed passed over Orissa to which it gave heavy rain. Throughout the remainder of the Province rain fell almost daily as light showers, but the total amount in consequence of the indraught to the cyclonic draught was small.

The rainfall was less than 10 inches in amount over the north-western districts of Behar and Chutia Nagpur, and over a large part of Central Bengal, including the Moorshedabad, Rajshahye, t'ubna, Buxa, Nuddea, South Burdwan, the greater p rt of the Presidency Division, North Jessore, Dacca, and the western half of the Mymousing district. In Central Bengal there were three centres of very slight rainfall—Manickgunge in the Dacca district, Nattore in the Nuddes district, and Ranaghat and Bongong in the Krishnaghur and Jessore

districts. At each of these the rainfall was less than five inches in amount

Rainfall exceeding 20 inches in amount occurred over the Noakhally, Chittagong, Cox's Bazar districts, and also in the Cooch Behar, Julpigoree, North Purneah, and North Bhagul-

pore districts.

The rainfall was in excess over the whole of Orissa, the greater part of Chutia Nagpur, and the whole of Behar (excepting the Chumparun, Bettiah, Gopalgunge, and Bhoobaah districts, and part of the Sonthal Pergunas), the Julpigoree and Darjeeling districts. The excess exceeded 10 inches in the Behar, Muzafferpore, North Purneah and North Bhagulpore districts and the Darjeeling Hills, and also at Cuttack and Pooree and Chandbali in Orissa. The excess was also over 10 inches along the north-east coast from

Cox's Bazar to Noakhally.

The rainfall was in defect over the districts referred to above, and also over near the whole of Bengal. The deficiency exceeding five inches over the greater part of Bengal to the east and north of a line running through Dinagepore, Rampore Bauleah, Krishnaghur,

Jessore, Midnapore, Chandbali, and Bhramanbariah. It exceeded 10 inches in part of the Cooch Behar and Rungpore districts, and the eastern half of the Mymensing district, including Mymensing and Kishoregunge.

The following table gives a summary of the rainfall and temperature data for the seven meteorological divisions of the Province:—

						Tumpe	RATUR	R-				1	RAINT	LL.			
	Matrorologicas District.				month.	Avera	ge for n	nonth.	hove or other	0	f mont	h.		ny dayi month		Since Maj	
				Highest observed during	Lowest observed during	Of highest of the month.	Of lowest of each day.	Of mean for each day.	Average mean of week above below normal mean month.	Average.	Normal average.	Variation.	Average unmber in month.	Namal arenge num- ber,	Verlation.	A voração.	Normal average.
Oriam South-West Bengal East Bengal North Bengal North Behar South Behar Chutia Nagpur	***	100	***	104'4 105'8 109-7 102'6 106'2 100'6 100'5	70°6 78°0 78°0 72°6 72°8 68°3 70°7	89'4 92'1 84'9 90'6 94'0 94'9 91'2	78.8 78.4 77.9 77.0 77.0 78.7 75.3	841 8514 807 83.8 85.6 85.6 85.6	-0.8 -0.8 -0.9 -0.9 -0.9	17:23 9:36 19:78 13:43 13:14 11:37 6:58	8:34 10:23 19:79 18:24 8:46 6:37 8:24	+8'89 -0'87 -0'01 -4'81 +4'74 +4'80 +0'86	14'8 15'0 20'6 16'8 11'4 12'0 16'1	11.9 14.5 19.8 17.8 9.7 9.9 14.6	+3'4 +0'5 +0'8 -0'4 +1'7 +2'1 -0'6	19:68 11:61 24:18 18:38 14:96 12:24 10:00	10:21 13:06 34:63 24:11 1:83 7:85 0:86

Results of the Meteorological Observations taken at the Alipore Observatory from 8th to 14th July 1883.

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Month. *	Page.	Massesson to out.	Number of hours of	Vinni prematie faroma	Mons	Magimonia.	libra.	U surrent m.	Mean wet bulb.	Уарпи сенатоп.	Fow pullet.	ft unnielits.	Prevailing direction.	Miles recorded.	Hain.	W married
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uly	8th	152.5	9	29 521	88.0	88.7	10 0	78.7	79.7	0.871	78:3	86	SSE and SE by S	176	0.46	Cloudy, o, g, d,
70	9th	159 8	7	1664	8.89	89.3	11.6	77.7	79:9	976	78.5	86	S and SSE	133	0 02	Chiefly cloudy.
	10th	169:0	Đ	*584	84:1	90.0	11/8	78.7	80%	1986	78 8	84	S and SE by S	78	0.11	Partially cloudy
01	11th	161 6	19	-649	85.8	92.6	14 8	78 9	80.8	1990	7819	81	S and E	54	Nil.	Chiefly cloudy,
	19th	144.8	Nii	'535	83.3	98.0	138	78-2	79 8	*987	78.8	89	SW, ENE and S	68	1.11	Cloudy, o, g, p,
30	18th	151.0	5	*624	88 9	88 1	9.4	78.7	79'3	.942	77:4	81	S, E and SE	166	0.10	Cloudy, o, g, d,
9-9	14th	1436	2	*572	82 5	87.7	0.3	78.2	79-1	1948	77.0	86	ESE and SE	190	0*46	Cloudy o, d, p,
	The	mean	press	ure of	the .	e we u	Onv6					_			,	100000. 29:547
	The	avéra	Ke hi	nure of ceasure of h	of the	e corr	enpoi					ears	. S. G. Office		•••	29·547 29·548 Hours.
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	The Tue The The The	avera moan avera extrem maxis	temi ge ter me va num	er of h	of the	of sur	esponeshing the contract on th	ys pondi durin s seve	ug pug the	ven da	or 2-	i ve	ears, S. G. Office		000	29·547 29·548 Hours. 44 & 83·6 83·9 14·8 92·5 Miss. 17
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The maximum and minimum temperatures are obtained from self-registering thermometers. All the thermometers are verified, and the readings have been corrected to a standard constructed and verified at the Kew Observatory. They are exposed under a that one shed open at the sides, and are suspended four feet above the ground.

The parometer readings are corrected approximately to those of the standard Newman's No. 86 formerly at the Surveyor-General's Office.

The hygrometric elements are obtained from Tables III, IV, and V of the official tables computed in the Meteorological Office, and based on Regnault's modifications of August's formula.

The direction of the movement of the wind are taken from the trace of a Beckiev's anemograph.

The mouth of the rain-gauge is one foot above the ground.

o overcast, g gloomy, d drizzling rain, p passing temporary showers, t thunder, lr lightning reflection.

John Eliot,

METROPOLOGICAL OFFICE, INDIA, The 16th July 1888. For Metauro opical Reporter to the Government of India.

# Meteorological Report of the Province of Bengal

									STATIO	N OBSE	KANT.	7.78.				-	- 40
				An	R PRESSU	712.20.	WIN	D.			TE	MPERAT				humidity for week.	Smooth 1
DISTR	ict.	Representative station.	Vo	Mean harameter beight, 10 A.E.	Mean reduced to sea-level.	Variation from	Prevaring direc-	Mean wind velo- city miles per day.	Highest during week.	Lowest during week.	Mean maximum temperature.	Mean minimum te perature of week.	Mean daily tem- persture of week.	Variation from normal mean of week.	Mean 10 A. M. temperature.	Average hun at 10 A. M. for v	Average cloud as
		Gopalpore		20.908	29.220	may	v	223	88 %	77'8	88*2	79'7	8114	-	8510	84	6
Poores	{	Palso Point		1813	*835	-104	Variable	219	89.8	76'6	87.4	78'5	83.0	1'9	6518	82	7
Cuttack	4.1	Cuttack		.405	'542	000	Variable	88	93'4	76'3	89'2	7918	8318	0.9	85'7	77	
Balasore	840 811	Balasore		*494	*553		Variable	72	92'1	76'3	881	76:2	83 2	-	851	90	1
South-West 3	[idnapore)	Garage Raland			*674	-047	W7 . 1.1.	202	0010	77:0	80.5	79-3	5412	+017	8416	84	
South 24-Pers		Saugor Island	***	*569		-041	Variable	202	2.86			10 3					
Midnapore	410 000	Midnapore		'449	1883	-	SE	1	93.9	77 2	80.1	77.8	8315	April.	65*5	80	1
34-Pergunnah	)														200	-	
Howrah	}	Calcutta	***	*806	*588	-016	8E	167	92'	77.7	80.9	78-5	84'2	+0.7	86°P	80	
Hooghly	)								1							77	
Burdwan	***	Burdwan		*803	*603	← 007	B	89	59.0	78.4	91.3	7910	85.5	+0.3	82.0	- "	
Bankoora													50.0		81.0	73	
Beerbhoom	}	Ranigunj	***	*233	-	Made	NB	7	93*5	77.8	89.1	787	83.6	-	000	-	
West Burdwa										60 60 a da			84'5	-0.8	6316	84	
Moorulandabad	4 040	Berhampore	***	188	'627	+016	E	121.5	93'7	77*8	00.1	78'5	090	-00			
Nuddes	***	*****	1												1		
Jessore	}	Jessore	***	*57b	219.	+ 009	8K	189.3	94'6	77'2	9018	78'8	84'8	0.0	84.3	84	
Khoolna	)	Chittagong			*658	-028	0.00	110	0011	76:0-	97.1	76*9	82.0	+0'2	83'6	82	
Chittagong	11.00	Demagri	***	*569	BION	-020	BE	110	88'I	rvatory			00.5				
Chittagong H		Barrisal	***	4000		_	v	207.7	91'6	77-8	88'4	78'3	8818	-	~ °B4'7	81	н
Backergunj	***	Noakholly	***	*808			· ·	MATE I		Not comn		70.0					
Noakholly	***	Furresdpore	^**	*525?	_	_	6E	174.6	91.8	7619	87'9	79'4	83.5	ends 1	851	70	
Furreedpore	4++ +4+	Duoca	***	-501	*627		8E	99	9318	75.0	90.7	79:0	84'9	+0.7	87.8	77	
Commillah	***	Commiliah	***	*5444	.031		BE	P	87.6	78.8	81'2	77.6	8019	des	84'7	75	
Mymonsingh	000 111	Mymensingh		1591		-	В	130	91.3	77-8	90.7	78'0	848		84.3	88	
Bogra and Pu		Serajgunj	001				_		2	Not com	nenced.						
Rajshahyo		Rampore Beau		1623	*897	-	NW	161	95.1	77-8	9112	78.7	85'0		8416	81	-
Dinagepore	***	Pinagepore		*400	dest	_	8E	141	97.6	76-1	92.7	79'8	86'1	7	89°t	68	
Rungpore	*** 041	Rungpore		1616	-	-	SE	110	97.8	74.6	98'7	78'7	8618	-	86.8	76	
Julpigoree	)	Julpigoree					9	118	0.010	77'1	91.4	79.5	84.8	-	85'4	82	
Cooch Behar	3	ampagoree		*331	-	,000	,	110	96'9	"	01.0	180	G-0 - C)				ì
Darjeeling Hi	I Districts	Darjeeling	•••	22:927	-	-	E	88	70'6	501	6815	87*2	65.8	-	6513	90	
Shahabad	1	Dehree	001	291241	*890	-	Variable	1	97.5	70.0	90'5	73'1	61.19	WMA	89'2	71	
DIMINUOU	{	HUXAT	***	1844	*843	-	NE	172	101 0	79'7	94 B	81.1	87'8	-	9017	64	
Gym	***	Gya		'201	'573		B	88	88.3	74'8	88.8	76.6	85'0	0.8	80.8	70	
Patna	940 444	Bunkipore	441	*417	1898	+00H	B	137	100 0	80'7	94'0	38.0	88'0	+1.7	80 0	10	
South Bhagul	bosa }	Bhagulpore	00+	*448	*590	400	88	108	8618	7010	93'9	79 9	8619	_	88'8	71	
Moughyr	)									00.0	90'1	man	83.2	_	84'8	89	
Southal Pergu	nnaka	Donmka	441	.119	-	-	SE	-	93'1	78 6	50 1	76'8	53.0				
Purneah	}	Purnesh	***	-479	1604	-005	Е	61	98'2	78 8	98'5	80.0	86.7	+31	88.8	73	
North Bhagui			1														
Mosufferpore Durbhunga	}	Durbhunga	***	'442	1607	+019	ESE	127	96'4	70.0	92.1	81°1	96.6	+1*9	89.8	76	
Chumparun	)	Motilmri		_		_	12	-	97'1	78°5	93'7	79-6	86'9	man.	90'1	69	
Sarun	**4 ***	Chupra	***	'405		_	E	41	95.8	77.0	94'1	81.1	67'0	-	89'3	92	
Hazaribuch	***	Hazaribagh	***	<b>37</b> '6U3	29.879	-005	E	199	87.9	78'0	84.7	74'2	79'5	-0.8	81.8	77	
Lohardugea	)		***	5, 000					1								
Manbhoom	,.}	Ranchee	***						P	Not coun	senced.						
singhbhoom		Chybasas								1							ь

Replanation of Summary.—The normal means of air pressure and temperature are the arithmetical averages or means of the readings during the same "The humidity of the atmosphere is expressed as a percentage, saturated ar heigh represented by 100. A clear sky is denoted by 0 and an overcast sky vations, rainful," the normal means are the numerical means or averages of the minfall in that district determined from the returns sent in by the sub-division that district, (i.e.) the total rainfall at the sub-divisional stations in the district sending in returns divided by the number of stations. A rainfall of the commenced on the lat July.

for the week ending 13th July 1883.

					DISTRICT O	BSERVATI	ONS.								
11. B.C.					Bat	INPALL.									
of week	01	weak.		e lst of mont	th.	Since	18th May.		days week.	days	Ropresentat	ve	DISTRIC	T.	+
Shinfall of chserving	Normal mean for district.	district.	Mean for district.	Normal mean.	Variation.	Mean for district.	Normal mean.	Variation.	Average number, of rainy days during the week.	of rates					
0.32		1			1	1			1	1	Gopulpore	7	11		
3'81	2'49	8:86	8*34	4*80	+3184	25'00	15.00	+10.21	8*7	4.3	Palse Point	}	Pooren	**1	***
1'98	8.67	4.07	6*77	8:01	+1.76	23.73	16157	+8.16	4'0	3'8	Cuttack		Cuttack	***	
3168	8145	8'94	6'82	5'51	+1101	26'71	15126	+9145	8.5	410	Balasore		Balasoro	***	***
2.68	8.88	3 53	7'93	6:26	+1'67	19.70	18:07	+1'17	4:0	4'5	Saugor Island			ldnap	
8.65	000												South \$4-Pergui	nualu	
0163	- 8'06	1.31	2.76	8184	-2.78	10:98	17'58	-6:45	8.0	2.9	Midnapore	,	Midnapore	184	
1					1	1						[	24-Perguunaha		***
1.0%	2.87	0.86	8.04	4.46	-0.23	14.89	17:30	- 2146	2.1	419 I	Caloutta		Howrah	400	
							*****				mt		thoughly	***	
20'0	1.99	0.62	1.44	8.86	-5.15	14-47	19.16	-0.69	413	8'6	Burdwan	***	Burdwan	***	
		0.00	8.70	4.01	. 0:03	20,00	377 400	. 0.00			Dominum		Bankoora	***	***
0196	8105	0.86	2.70	4:91	+2'21	18:39	17 60	+0.80	3.4	4'5	Ranigunj	5	Heerbhoom	***	***
			2100		-3'71		14403	2.000		***	Manhamana	-		***	***
0:63	2'66	0.34	2.01	5'61	- 2'72	15.13	16:91	-1'78	1'7	4'8	Borhumpore			400	
1	2.40	0.4	2.01	4.73	- 2 12	18'46	18'40	-4.86	8:0	4.0	*****		Nudden	***	***
0.79	2 06	1.13	3.02	4.83	-1.31	14'44	20:65	-6.51	8.7	4.7	Jessore	}		***	- ***
	0.00	2.00	8.89	11:01	-7-42	50'50	45'77	+10.79	6.0	H + 47	Chittagong		Khoolm	***	***
1'94	6.50	1'23	2'32		-8.42	1	29:27	-6.18	8.0	5.6		***	Chittagong		***
	3'19	1.79	2.92	7.10	-4.87	23'09	32.54	-9·78	5.0	5.8 2.8	Demagei Barrisal	* * *	Chittagong Hill	Trac	
1'98	8164	8.01	6'43	8.84	- 4'41	47:90	42.77	+5*13	8.0	8.8	Nonkholly		Backergunj	***	500
Auga	2'30	1.81	1.65	4.83	-3.17	13:53	22.33	-8.90	6.7	4*8	Furreedpore	***	Nonkholly	0.01	0.00
0.36		1.85	2.63	5.03	-2.41	13.20	23:31	-9.62	4.3	4.8	Dacca	***	Furreedpore Dacon	***	4**
2'86	2.77	3'38	5.31	5'63	-0.78	26.63	28.08	-1:40	4'8	5:0	Commiliah	***	Commillah	***	474
2.80	8:48	1'09	1:68	6.00	-4.33	15.29	28.79	-13 06	2.2	4'6	Mymonsingh	***	Mymensingh	, ***	***
8 01	2.89	1:11	1.74	5.54	-3.20	15.74	21'64	-5.80	2.7	4'0	Sernjgunj	441	Bogra and Pub	FD (to	000
0.20	2'95	0*59	1'33	5*79	-4:46	14'02	10.50	-5'24	2.3	4.8	Rampore Bes	uleab	1		***
0.51	2171	- 0.88	0.01	8:40	-4'88	14'99	24.35	-9.36	1.6	4.1	Dinagapore	***	Dinagopore	***	001
1 0186	4'94	0.20	1.17	7:14	-5'97	17.86	36°33	-16'77	2.0	37	Rungpore	***	Rungpore	000	000
												(	Julpigorea	040	***
1'09	3.91	0.63	1*25	7'46	-6.19	82.66	40 67	17'81	3.3	4.7	Julpigoree	}	Cooch Behar	000	***
2.01	10.81	1.78	4117	19.76	-15.20	58185	64'71	-6:46	8.7	6.0	Darjeeling		Darjeeting Hil		
1'36											Duhree	)			
~	2:89	0.18	1.77	4.72	-2.89	9.76	10.68	-0.98	0.8	3.9	Buzar		Shahahad	***	***
-	2*85	0.10	2:58	4'78	-2:20	13'89	11:57	+ 2'83	0.7	8'5	Gyn	411	Gya	per	200
	W168	0.39	1.86	8*14	8:29	18'49	12145	+6'04	1.3	3.8	Bankipore			144	
CART					0.00		45.00	mer h					South Bhagul		00
0.19	8.81	0.92	1.07	4:80	-8.78	12'84	1896	-0.11	1.6	418	Bhagulpore	****		***	
0.53	2188	0.71	1.70	6'44	-8'74	18'06	16.80	-1'48	818	4'3	Doomka	***	Southal Pergu	nnahi	
0.15	8105	6440	2109	#1=0	-4'21	26.02	19:40	+6.98	246		Réserve de		Purneah	994	
4 46	5.82	0.80	1'87	6.68		20 03	10.00	40.00	1.8	4.1	Purnosh	****	North Bhagul	pore	40-
0.14	@ sepan	0.00	2,000	6.01	-5'90	38:08	10 80	4.4586	010	910	The whole come or		Monuforpore	***	
	8.72	0.87	1.88	5'81	-500	18:98	13 79	+4.98	0'8	3.8	Durbhunga	47.	Durbhunga	***	***
	8.35	9.03	8:69	8:81	-1'68	10.08	15'87	-5:32	0'8	8.8	Motibari	46	Ohumparum	***	**
0.03	2'64	0.81	2195	4185	-1.90	12.81	13'86	+0'45	0'5	8.6	Cnupra	40	Burun	949	
3:47	9.00	3.10	8.39	5.91	-0.18	13.03	15'44	-5.39	3'7	4.8	Husaribagh	4.1	Hazaribagh	*11	••
	2'96	1.78	5-99	8.10	+0:89	18789	14'53	+ 4.00	4.0	6'7	Ranchee		Lohardumen	E00	1775 je 44
		1 10	3.00	. 510	4000		13 04	7 000	-				Manbhoom		6.
	3:31	2196	6'18	4'81	+1'81	16'67	18'50	-2'88	4.0	4'9	Chyebausa		Singhbhoom	***	

period for the past 12 years. The variations are acquires when the mean for the week is less than the corresponding normal mean and positive when greater by 10. The number denoting cloud amount represents the part of the sky covered, the whole sky being denoted by 10. Under the head "district observable stations for the period in question during the past 12 years. The "means for the district" are the numerical averages of the rainfall returns received any is one on which at least an hundredth of an inch fell.

# Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 13th of July 1883.

1					H	INFALL				Tot	al.				A
eteorological	Pantalas	Sanain.	412	Seth.	4th	10th	Hith	13th	13th	. a	8	Total rain-	total rain-	Total min-	Averse runfall from 15t
division.	District.	Station.	Saturday, July.	Sanday July.	Monday.	Tuestiny, July.	Wednesday.llth	Thursday, June.	Priday, July.	Number rainy days.	Rainfall week.	lut to 13th July,	July.	löth May.	May to date.
106A	Pooree	Poorce Khurdali Banpur False Point Hookitola	0.40 1.10	0°21 0°53 0°47 0°20	0.50	0107 0103	0.000	0.18 0.18 0.18 0.18	1:78 0:17 1:07	6	3:43 4:00 8:24	8'AE 9'02 7'68	8154 4168 4158 5124 P	27-71 28-87 28-15	1216 1618 14 8 2617
	Cuttack	Jagatsingpore Bunki Outtack Kendrapara Jajpore	0°70 2°66 1°65 0°03 8°60	0.40	1.64		0.18	0°19 1°60 1°86	0°80 1°09 1°00 0°85	8 6 3 4	9.70 4.64 8.38 5 ol	6'78 6'87 4'43 9'06	8*91 P 6:83 4:37 6:38	34:88 21:45 20:33	12*2 10*8 14*3 18*8
	Balasore	Chandbali Bluddruck Bornh Balasore Jeelasore	0.722 0.722 0.725 0.720 0.48 2.14	0°85 0°85 0°67 0°59	0.10 0.00 0.00	0.80	0 42 2 10 0 55 0 02	0'76 1'80 0'40 2'60 0'80	21:7 0132 0140 035 037	8 6 5 7	4:35 3:41 4:38 2:41	7*29 5 33 6 72 5 57	6143 6113 6174 61181 61181 6182	8 \$140 23 103 23 62 87 124	18:7 18:7 18:7 15:9 16:1
PT II-W EST	Midnapore	Contal Saug r Island Timilook	0'20 0'41 0'13 0'20	0°14 0°35 0°02	0.48	0.19	*****	3.41 5.50 0.10	0°21 0°28 0°24 0°77	5 4 1 2 3	4°11 4°03 1°00 0°01 1°42	9:15 0:11 8:10 2:43 2:77	8°76 6°55 4°04 4°08 7°06	24°03 22°07 11°50 10°18 11°18	17** 18** 18*7 16*7 20**
Š.	24 Pergunnaha	Diamond Har- bour. Alipore Jall Barrack pore Dum-Dum	0.01	0145 (1144)	0°11 0°08 0°40 0°20	0 03	0.08	0.00	0.13	8 7 2	1°54 1°49 0°50 1°22	5'53 4'83 3 91 6'90	6.56 4.55 3.19 5.87	13:87 14:74 14:43 16:72	17:8 17:8 17:1
10	Howrah	Burearint Howenh Mohenceka	0:04 0:04 0:10	0103 0128 0147 0128	0.10	0°01 0°02 0°03	0.81	0.00 0.41 0.00	0.03 0.03	5 5 6	0°28 1°41 1°25 0°61	8 83 8 88 8 90	8.71 4.62 5.36	14 47 20 98 18 85 12 80	161 101 171 818
~	Hooghly	Serampore Hooghly Jehanabad	0°13 0°05 0°09	0142 0126	0.03	0°0d	0°04 0°05 0°01	0°03	0°01 0°25 0°28	7 4 3	0°74 0°45 0°45	2:41 2:05	4·07 3·77 5·78	16'41 13'89 12'87	16'2 15'7 18'5
	Burdwan	Culma Burdwan Cutwa Rancogunge	0.13 0.12 0.02	0.15	0168 0107 0188	0105	0.82	0.80	0185 0114	6 8	1.18 1.04 0.84	0.185 3.154 5.15	4:00 5:69 8:72 4:51	14:05 10:27 13:12	184° 161 151 161
	Bankoora	Bankoora Bishonporo Maliara Khatra	0.84 0.84	0.07 0.18 0.16	0°15 0°10 0°14	******	******	0.18	******	8 1 4	0.83 0.49	2168 171 2142	4°67 5°50 5°07 4°69	11:23 16:39 10:22	n 10' 10' 17' 38'
000	Beerbhoom	Bh. Soory Hetampore	0.72	0.04 0.71	0114	*****	*****	0.50	0.47	8	2'03 0 71	4.73 1.28	8 51 6 17	27149 18120	17 18
	Nuddea	Bonsong Ranaghat Kishnughur Chaoadanga Meherporo Kooshtea	0.12	0.00	0'88 0'05 0'82	******	****** ****** ******	0°10 0°24 0°07 0°11 0°21 1°78	0.54	4 3 2 4	0.71 0.20 0.43 0.36 2.01	8*07 0*40 1*13 2*08 2*90	4105 4132 4168 8142 4186	16'01 6'06 8'02 15'12 20'53	19: 10: 15: 19: 17: 20:
6	Khoolna	Satkira Bagiihat Khoolna	0°21 0°15 0°16	******	0.31	*****	*****	0°35 6'08	0°07 0°61	3	0°68	0°48 2°61	5:80 5:80	16.03	20° 23° 50°
	Joseore	Narail Jeanure Jhemdah Magoorsh	0.10	0°12 0°05 0°30	0°53 0°09 0°11	*****	******	1'60 0'46 0'46	0.04	6 4 5 3	3:41 0:00 1:08 1:15	2:73 1:93 2:03 2:34	4.12 4.13 4.13	16.85 16.85 17.08	19: 21: 18:
	Moorshedabad	Kandi Rumpore Haut Herlampore Laibugi: Azma ungo Jungupore Laigola		0.02	0.38 0.33 0.33	0.04	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0°37 0°59 0°11 0°24 6°06	0000000 000000 000000 000000	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0°32 0°34 0°45 0°45 0°12 Nil 0°06	1:52 1:66 1:51 1:26 0:50 2:12 9:54	5:89 4:00 5:09 4:58 4:38 5:41 6:00	1495 26'44 15'34 12'90 16'12 16'07 18'83	.16° 17° 10° 17° 16° 17°
T BEFGAL	Ohittegong	Cox's Bazar Chittagong	0:05	0'10	0140	0.03	0°43 0°34	0.58	0.93	6	1'32	3·78 3·64	14'87 7'16	80.38 80.58	.~ 85°
	Chittagong Hall Tructs.	Rangamati Ruma Agartola	*****	0°13 0°25 0°10	0.11	0.00	0°80	0.07	0°45	6	1'22	1:77 5:89	6'R1 4'71 6'44	24°26 24°43	90' 97' 23'
1	Backergunge	Patuakhally Perozopore Burnsal Bhola	0°13 0°03 0°27	0187 0148 0140 0104	0130 0140	0*08	0.18	1°10 0°18 0°18 0°18	0°18 0°63 1°07 0°71	6 5 5	1.67 1.44 1.08 3.08	8:38 8:36 8:38	9:04 6:41 0:07 6:88	24°67 20°23 20°19 38°00	37' 20' 27 30'
	Nonkholly	Noakholly Fenny	*****	0.50	88.0 29.0	0.03	0.78 0.50	0.87	0.84	6	8'81 2'20	5'88 8'01	8.85	47°38 47°53	41
	Furreedpore	Madaripore Furredpore Goalando	0.18	0183 0108 0105	0°16 0°13	0°17	0.51	0:70 0:12 0:30	0°45 0°17 0°06	. 5 6	2'70 U'51 U'54	8 08	4'97 5'07 6'41	18'20	22°
	Dacos	Munshigunge Dacca Naminkunge Manickgunge	0.03	0.03	0:19 0:09 0:09 0:07	Q108	******* ******	0°00 0°42 0°49 0°77	1°10 1°01 1°:0 1°61	5 5 5 3	5.40 5.01 1.99 1.20	2:33 2:44 P 2:80	6'08 6'41 P 6'61	13-91 P 11-74	27° 23 7 18°
	Comitia	Comilla Uhuntpore Brahmun seria	0.03	0.50	0.05 1.32 0.05	0.10	1.75	100000	2°14 2.60 1°85	6 5 5	2:61 8:80 1:71	4'98 7'10 8'08	5168 5173 4128	38-33 20-45 10-85	211 32 45
	Mymensingh.,	Kishoregunge Aun hymensisingh Jamultang Netrokons	0.04	0:45 0:06 0:85	0°34 0°97	0 00	6-14	0.03	0'73 1'12 1'40 0'11 1'45	1 8 8 8	0.78 1 44 3:08 0.17 4:03	0.29	6'38 4 39 6'11 8'70 P	18:10 17:18 17:08 11:80	30 12 27 23

Representation indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the returns are santing, the corresponding spaces in the total rainfall columns are left blank,

Statement of Rainfall in Bengal for the week ending Friday (6 p.m.), the 13th of July 1883—concluded.

					1	LAINFALI	de .			To	TAL.		4 0		
Meteorological division.	District.	Station.	lay, 712	y. 8th	y. eth	nesday, 10th	Wednesday.	lay, 12th	. 18th	dags.	0	Total rain- fall from lut to 13th	A verage total min- full from lat to 18th	Total rain- fall since 1862 May.	Average rainfall from loth May to
			Saturday, July.	Sa-day.	Monday.	Tuesday.	Weds	Thursday, July.	Priday,	Number of	Reinfall week,	July.	July.		dato.
ORTH BRIGAL	Pubna	Pubna	******	011	0°06 0°42	0.11	4000.1	1.82	0.90	4 2	2.10	3:00 1:27	4'48 4'98	15*P6 27'40 (	1918
	Bogra	Sherporn Nuwkhilla Bogrn Panchhibi	\$\$4.40 \$\$57.00 \$\$4.00		0.49 0.49	0.08 0.08	007711 007000 141770	7 1 1 2 ) 0 9 0 2 2 3 0 4 - 2 2 - 4 4	110 015 031	2 2	1°48 0°24 0°37 0°36	8:01 0:41 2:05 0:77	618 4155 6182 6194	11°17 9 63 12°13 12°97	2814 211 2514
	Rajshahyo	Beauleab	*****	44400	0*86	0'19		0106	0.40	8	0.28	1.23	6.74 2.62	11:14	1815 3013
	Maldah	Maldah	** 900	*****	0 00	*****	******	0.04	0.09	8	0.79	0.83	8159	12163	,3.81
2 2	Dinagepore	Mohadobpore Churamon Raigunge Dimgepore Baloorghat	4+ <b>000</b> 4+ <b>000</b> 4+ <b>000</b>	0.59 0.90	0.08	******	9 * 0 * 0 ¢	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	0.60	3 8	0138 0138 0138	1100 0120 0 55 0182 0 48	5°15 5°15 6°28 7	10:46 13:02 14:72 10:49	361; 20 ( 24 ( 27)
	Rangpore	Bhawanigunge Runspole Kurgeam	1. 181	10000	0°14 0°02	*****	******		0.18	8 1	0.80	2100 0184	5°20 9°10 7°23	23:65 19:07	251 33 7
176		Baguogra	******	*****	**	10000		0.11	0.58	2	0.89	0.20	0.08	23.93	38 6 66'7
	Julpigoree	Julpigoree	0103	0.07	0.15	0.44	0.09	******	9.06	6	1'84	8:25	1.1 '98	44'40	6716
w	Cooch Behar	Dinharta Creah Behar Mackingungo Matabhanga		0.07 0.07 0.15 0.10	0134 0105 0105 0160	0.52	044404 010777 010777	000000 100000 00000	000 00 000 00 000 00	3 8 8	0°58 0°42 0°21 0°62	0186 0147 0141 1148	8186 10178 4167 5196	94*83 35*57 81*96 41*93	46*0 55*5 46*4 51*6
	Darjoeling Hill.	Buza Silliguri Parpeding Kalimpong	1'92	0'02 1'18 1'00	0.20 0.40	6166 ( 0145 0 25 0153	*****	0.08	******	8	1°79 1°03 1°68	4135 5193 3123	13.86 5	46170	87% P 41%
ORTH BREAK	Purneah	Kimongungo . Arraresh Purnosh	******	******	0.09	£°08	*****	0.30	0.50	2 1 2	0.33 0.33	3194 1114 178	8104 6127 8111	80'68 80'62 13'18	20°
998884	North Bingul- pore.	Maddapore		*****	******	11104		*****	0°98	1_	0°28 Nil	2 4-3 0-07	8148 5146	50167 24 67	14°
i de un	Durbhunga	Tajporo Duchimum Madhubum	00000	******	0.10	V04 / 1 + + + + + + + + + + + + + + + + + +	101	101402	0.49	2	0:68 0:56 Nil	1°49 0'84 1'71	6.14 4.98	16.30 21.13 17.78	13 <sup>-</sup> 14 <sup>-</sup> 14 <sup>-</sup>
Maria Contract	Mozafferpore	Sitamarhi Mozufferpore Hajipore	484.00	******	04000		******	******	034	1 1	Nil 0'36 0'04	2:04 1:16 0:63	8°17 8'47 4'68	10°05 22°03 16°35	14º 18°
	Ohumparun	Motibari Bettish Gopsigungo Sewan Chuprah	0.10	000000 000000 00000	******* ****** ******	600000 ********************************	000 60 00 00 00	**************************************	0.45	<u> </u>	Nil 0'40 Nil 0'42 Nil	4-80 5-37 6-90 1 82 3-97	4*68 6*38 5*53 5*11 4*59	11:71 11:36 7:11 9:75 15:86	6 145 177 161 181 101
DUTE BEEAR	Shahabad	Buzar Debree Hhubouah Susseram	0.08	000000 00000 00000	**************************************	***********	000 100 .000 10 000 10 1011	10000	0.04	1 1	0.08 Nil 0.08 No.04	1.57 6.25 6.60 1.77 0.67	476 9 5108 4111 4160	8°90 10'21 18'83	10° P
	Gya	Aurungabad Gys Nowadah Jelianabad	401.40	******	0.11	000000	******* ****** ******	0.18		3	Nil Nil 0 29 Nil	3'04 3'11 2'10	4:88 4:20 5:27 4:71	19:04	11'
	Patna	Patria Bicaporo Behar Barrh	0.66	0"04	0.08	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	******	*****	0.94	1 2 2 1	0°67 0°10 0°68 0°03	1°33 1 40 8°24 1°38	6155 6167 5151 6163	16'31 12 50 80'29 15'82	12" 13' 13'
ma A	Monghyr	Begooserni Monebyr Jamui	001001	G*14	0.03	*****	000000 000000	0.15	0.00	1 3 1	0.05 0.58 1.09	0.30 1.39	4-73 5-23 4-93	10:53 5:109	71°
-	South Bhagul- pore.	Banka	000,00	0.19	0.17	000000	******	******	******	1	0.12	0.39	4.58 4.58	15'67 7'76	12
	Sonthal Pergunnaha.	Rajmobal Gorda Pakeur Nya Doomka Deeghur	0.08	0.58 0.00 0.11	0:33 0:15 0:15 0:05	0.03	#10 500 300 400 000 000	0.04	0.89	1 3 6	0188 0115 0141 0163 0169	0'88 2'13 1'00 2'15 1'87	6'64 4'85 6'90 4'97 5'90	9:86 8:40 8:78 17:66 16:62	19' 13' 10' 10'
RUYIA NAG-	Hamribugh	Pachamba Hazneibagh Bentagurh Mahudi Hilla	0°21 6°17 1°47 0°15 1°04	0°40 0°13	6°46 1°25 0°71	0.08	0.18	000000	1146	5 3 3	2.48 2.84 0.00	3:47 7:39 2:93	6138 5138 5138 613 6100	15°63 11'79 15'99	15°
	Lohardugga	Ranchi Pulamow	1190	0188 0107	0.59	6.40 0.40	) 000000	0.88	0.40	6	3·88 1°35	9.08	4°86 6°17	24.73	167
	Bingbboom	Chyobana	1.28	0.28	0.79	*****	000011	******	0.19	4	2198	6.13	4.81	15'67	18
	Manbhoom	Purulia Gobindpore	9160 0146	0.18	0.58	*****	012140	0.78	*****	8	1.39	7 189	8°08	22.78 10.71	15

Replonation. Indicates that no rain has fallen. If the return for any day has not been received, the corresponding space is left blank. If some of the returns are

# SUMMARY OF METEOROLOGICAL AND RAINFALL OBSERVATIONS TAKEN IN BENGAL FOR THE WEEK ENDING FRIDAY, 13TH JULY 1883.

It was stated in last week's report that a feeble cyclonic vortex had formed at the head of the Bay, and advanced slowly westwards during the latter part of the week. The centre was approaching and near to the Orissa coast at the end of last week. It crossed the Balascre coast late on Saturday evening and advanced over the North Orissa hills into the central Provinces, where it apparently broke up on Monday after having given moderately heavy rain to South-West Bengal, Orissa, Chutia Nagpur, and the northern districts of the Uentral Provinces. The southerly winds which were established over Bengal on Saturday and Sunday, with the passage of the vortex across the Orissa coast, gave frequent light to moderate showers over the greater part of the Province. On Tuesday morning a rapid fall of the barometer at the stations on the east coast of the Bay, and a shift of wind at Akyab to north-east, indicated the commencement of the formation of another cyclonic vortex. It developed slowly on Wednesday, and commenced to move westwards on Thursday morning, advancing along a path some distance to the south of that of the two preceding vortices. Northerly winds set in over the north-west coast of the Bay on Wednesday morning, and gradually extended inland. The suspension of the southerly winds at this time, and the indraught from the north to the vortex, diminished humidity, and partially deared the sky from cloud in North Bengal and Behar. Temperature also increased rapidly, and unusually high maximum day temperatures were registered in North Bengal and Behar, more especially on Thursday, after which temperature began to diminish. The westward advance of the vortex on that day began to give overcast skies and moderate rain to South Bengal and Urissa. The cloud amount increased considerably over the whole Province on Friday, and rain fell in every division. The vortex crossed the coast to the south of False Point ne r Gopalpore on Friday evening, when southerly winds were again established over the Province. They are now gi

In consequence of the peculiar meteorological features of the week, little rain fell in Behar and North Bengal. Over the whole of that area the weather was that which is usually asso-

The variations from the normal conditions during the past week have been large. The average pressure was generally below the normal by small amounts except at the Orissa stations, where pressure was very low as contrasted with the remainder of the Province, in consequence of the passage across it of two cyclonic vortices. The deficiency at False Point was a tenth of an inch. Temperature was above the average except in Orissa. This was most marked in Behar and North Bengal, for which the mean temperature of the week was probably 2° above the normal. Winds varied considerably iff force during the week, but were normal in direction except in South-West Bengal and Orissa, where they shifted with the position of the vortices. The sky has been on the average more than half covered with cloud except at Buxar, Motehari, and Chuprah, the most westerly stations in Behar, and at

Bhagulpore.

The following table gives the usual summary of the temperature and rainfall data for each of the seven meteorological divisions of the Province:—

Week ending 13th July 1883.

			Тима	FRAT	PRE						RAII	TPALL.				
	Week.	Work.	Aver	uge for	week.	above or		Of wee	ile.	R	ainy d	myn,		oc lat	Since 180	
METHOROLOGICAL DISTRICT.	Highest observed during week.	Lowest observed during	Of highest of each day.	Of lowest of each day.	Of mean for each day.	Average mean of week ab	Average.	Nermal lawner.	Variation,	Average number in week.	Normal average mm- ber,	Variation,	Average.	Normal average.	Arrenge.	Normal average.
Orisea. South-West Bengal Rast Bengal North Bengal North Behar South Behar Ohutla Nagpur	93'4 94'6 94'3 97'8 101'D 98'2 87'6	74'8 77'0 75'6 74'8 74'8 77'0 73'6	67°0 89'9 85'2 99'3 93'2 93'1 84'7	78°7 78°6 78°1 79°1 78°5 80°5 74°3	82'8 84'3 83'2 80'0 85'9 86'8 79'5	-0.8 +0.9 +0.9 -0.0	3'89 0'99 2'18 0'59 0'10 0'87 2'06	3146	+0.96 -1.67 -1.32 -2.79 -2.66 -2.22 -0.89	4°9 3°5 4°6 2°6 0°8 1°6 3°9	4.0 4.4 8.1 4.8 3.6 4.0 4.8	-0.8 -3.8 -1.8 -0.9 -0.0	6.64 2.89 3.30 1.26 3.13 1.77 5.39	8:07 4:79 6:28 6:82 6:54 8:00 6:20	25:06 17:28 22:80 21:89 19:62 12:48 16:00	18 2 17 6 80 H 32 H 13 5 14 6 16 3

The preceding table shows that Orissa is the only division which received abundant rain. In Chutia Nagpur and East Bengal the rainfall was slightly in defect. Over the rest of the Province the rainfall was very small in amount. In North Bengal and Behar it occurred merely as local and light showers, which on the average gave from 10 to 20 per cent, of the normal rainfall for the week. Over the same area the average number of rainy days during the week was only half, as contrasted with the normal number 3. Hence an almost complete break in the rains prevailed in that part of the Province during the week.

Saturday, 7th July.—Pressure fell rapidly in Orissa, and to a less extent in Chutia Nagpur and the adjacent districts of South-West Bengal. It increased over the remainder of the Province, the rise being largest in North Bengal. The rapid fall in Orissa was due to the slow westward movement of the pyclonic disturbance, the centre of which, at 10-a.m. was in the north-west angle of the Bay, and approaching to the North Orissa coast. It crossed the Balasore coast in the afternoon. The disturbance was small one, but it originated in the same part of the Bay and marched along the same path as the vortex of the fortnight previous. Temperature was rising over the Province. Te mean temperature of the past 24 hours was 4½° below the mean in Orissa, and 2° in Chutia Nagpur and South Bengal. It was 2° above it in East Bengal The barometric depression at the head of the Bay continued to be fed by moderate winds of indraught. Winds were south-easterly in East Bengal, variable in North Bengal, easterly in Behar and Chutia Nagpur, and north-easterly to north-westerly in Orissa. The air was unusually dry over a large part of North Bengal and North Behar. The amount of cloud was generally less than on the 6th. Skies were overcast at the majority of statious in Orissa, South-West Bengal, Chutia Nagpur and the Gya district of South Behar.

Rain occurred chiefly in connection with the cyclonic disturbance and was fairly general in Orissa, the south-western districts of South-West Bengal and Chutia Nagpur. A few light showers of no importance fell in East and North Bengal. Tajpore in the cuttack district

received the heaviest amount-3 3 inches.

Sunday, 8th July.—Pressure was increasing rapidly in Orissa and in South-West Bengal. The changes elsewhere were small and unimportant. The cyclonic disturbance was now d near to the North Orissa hills Temperature was generally slightly lower than Winds were normal in direction. The monsoon winds at the head of the Bay advancing and near to the North Orissa hills on the 7th. were feeble. Little change took place in humidity. The chief feature was low numidity in Eastern Bengal. The sky was overeast at a few stations, but was generally more than half clouded. General rain, light to moderate in amount, fell in Orissa, Chutia Nagpur and the adjacent districts of South-West Bengal. Light local showers also fell in the eastern districts of South-West Bengal, East Bengal and the northern districts of North Bengal.

The rainfall was unusually light over the greater part of North and East Bengal.

Monday, 9th July-Pressure had increased at the great majority of stations. The rise was rather large in Orissa, but elsewhere the changes were small and of little importance. Pressure was generally below the average by small amounts. Temperature was again rising. The mean temperature was about 1° below the average in Orissa and South Bengal, and 2° below it in Chutia Nagpur and the Gya district. It was slightly above the average in South and Central Behar. The highest maximum temperature was 95.5° recorded at Chupra. Winds were generally normal in character. Light to moderate monsoon winds were blowing at the head of the Bay. The air was much damper in East Bengal and the sky was overcast at the majority of stations in East and North Bengal. It was almost free from cloud in South Behar. Light local showers of little importance fell in every division of the Province: they were slightly heavier and more general in North and East Bengal than elsewhere. A partial break in the rains commenced with the passage of the previous cyclonic vortex across the Orissa hills.

Tuesday, 10th July .- Pressure increased during the preceding 24 hours over the whole province by small amounts, except at (hittagong. A large fall at that station was the first sign of the formation of an area of low pressure off the Aracan coast. Pressure exceeded the normal by small amounts, except in Orissa and at Gya, where it was slightly in defect. Temperature was increasing steadily and was generally above the average by small amounts. The mean temperature of the past 24 hours was 1° above the normal of small amounts. The mean temperature of the past 24 hours was 1° above the normal of the day in Behar. The highest maximum temperature of the day was 95.9° at Buxar. Winds were again lighter at the head of the Bay. They were generally unchanged in direction except that westerly winds had set in at Cuttack and False Point. They were probably due to the depression now forming. The sky was overcast at two or three stations in South Behar, and was almost cloudless in South-West Bengal and North Bengal. Light showers fell in every division during the preceding 24 hours. They were tairly general in North and East Bengal. The heaviest reported fall was 4.46 inches at Buxa in the Bhootan Duars. Elsewhere the showers were very light and limited in extent and of little importance. Weather was fine with passing clouds and light local showers except in Behar where no rain was falling. in Behar, where no rain was falling.

Wednesday, 11th July .- Pressure was increasing in Behar, Chutia Nagpur, and at a few stations in South-West Bengal, and war now falling elsewhere. The changes were except at Chittagong and Akyab, where the barometer was now falling rather rapidly The changes were small area of low pressure and cyclonic air motion of the Aracan coast was more clearly marked than on the 10th and was slowly developing into a feeble disturbance. Pressure was slightly above the average of the day, except in East Bengal and Orisss, where it was in defect. Temperature was increasing rather rapidly, more especially in Behar. The mean temperature of the past 24 hours varied from the normal of the day by amounts averaging 1° in Bengal and 1° in Behar and Chutia Nagpur. The highest temperatures for this day were 98.9° at Buxar, 98°, at Patna, and 9.75° at Dehree. Winds were very light at the Head of the Bay and had shifted round to north-east at Balasore and False Point, and to north-west at Gausteres. Light casters winds proposited gausseller in North Baycal, and Pakes. Gopalpore. Light easterly winds prevailed generally in North Bengal and Behar. The air was drier, more especially in South Behar. The cloud amount was smaller also everywhere and was least in North Bengal and Behar. A few light showers of little importance fell in Orissa, South-West and East Bengal, and in and near the Darjeeling Hills. The

break in the rains new extended over the whole province.

break in the rains now extended over the whole province.

Thursday, 12th July.—Pressure gave way over the whole province, most rapidly in Orissa and North and Central Behar. It was at 10 a. m. generally below the normal pressure of the day. The deficiency was greatest at False Point, where it was '01". The cyclonic vortex, which began to form on Tuesday off the Aracan coast, now commenced to move westwards across the May towards the Orissa coast. Temperature was above the average except at the coast stations of Orissa and South-West Bengal, and had increased considerably in Behar. The mean temperature of the past 24 hours was 1° above the normal in East Bengal, 2° in South-West Bengal, and 4° in North and Central Behar. High maximum temperatures were recorded for the day in South Behar. Buxar registered a maximum temperature of 101.9° and Patna of 100°. Winds were very light over the whole Province. In South Bengal winds were easterly and on the Orissa coast they were northerly or north-north-westerly. The indraught to the vortex was thus extending, but was as yet very feeble from the north. In North Bengal and Behar light easterly winds prevailed. The extension of the cyclonic disturbance during the past 24 hours gave increased humidity and extension of the cyclonic disturbance during the past 24 hours gave increased humidity and overcast skies to South-West Bengal and the Orissa coast. In the interior of the province the slight indraught to it continued to diminish the humidity and cloud amount. Rain fell only in connection with the cyclonic disturbance over Orissa, South-West Bengal, and East Bengal, and was generally moderate in amount. The break in the rains continued in Behar, North Bengal and Chutia Nagour. The cyclonic vortex now gave overcast skies and rain to South Bengal and Orissa.

Friday, 13th July.—Pressure decreased slightly during the preceding 24 hours in Orissa, South-West Bengal, and at the majority of the North Bengal stations, and increased elsewhere. he fall of the barometer in Orissa was due to the westward movement of the feeble cyclonic vortex which was at 10 A. M. approaching the Orissa coast. It crossed the Orissa coast south of Fulse Point and near Gopalpore late in the evening of this day. Pressure varied very slightly from the normal at 10 A. M. except in Orissa, and more especially at False Point where it was '14" below the average for the day. Temperature was above the generally and was unusually high in Behar and North Bengal. Buxar recorded the highest maximum temperature—101'9°. Winds were light to moderate in force at the head of the Bay, and indicated feeble indraught to the vortex off the Orissa coest. North cost winds. at the head of the Bay, and indicated feeble indraught to the vortex off the Orissa coast. North-east winds generally revailed in Orissa and South-West Bengal at 10 a.m., but shifted round to south-east during the next 24 hours. Winds were light, variable, and unsteady in South Behar. The air was slightly damper in Bengal and Orissa. Skies were overeast or thickly clouded in South Beng 1 and Orissa. The sky was almost clear at the Behar stations. Rain fell in moderate amounts over South-West Bengal, East Bengal and the greater part of North Bengal Little or no rain fell in Behar, and the rainfall of North Bengal was very limited. The cyclonic vortex gave slightly unsettled weather with rain to South Bengal and Orissa. In Behar, North Bengal and Chutia Nagnur the break in the rains continued.

Nagpur the break in the rains continued.

# Results of the Thermometrical Observations taken at the Meteorological Office, Ohowringhee, from 8th to 14th July 1883.

					Tumpun.	ATURS.			Нтевои	PET.		
Морты		Date.		Mean.	Varinteta.	Habge.	Minteress.	Mean wet bulb	Vapon tension.	New point.	Humidity.	Rain
1888.				0	0	0	•	0	Inches	0	9/	Inches-
July	***	8th		81.9	89.7	11 4	78:3	79-7	-686	7818	90	0.85
14	10.0	9th	101	83.8	80.0	12.0	78.0	79.6	·668	78-1	84	011
94	10.0	loth	100	84.8	81.8	12.6	78.8	80.9	'998	79.1	84	Nil
10	19.0	lith	101	Bô-ti	85.8	12.4	78.8	81.3	1.006	79.4	81	0.05
69	100	135p		01'0	10.9	11.1	79 5	79.3	979	78'6	92	61:68
9.0	10.1	13th		03 &	84.8	9.6	79.4	79.8	969	7810	88	Nil
90	-0.1	14th		81.8	87.7	8.7	79.0	79.3	.969	78.8	89	0.22

			0
The mean temperature of the seven days			83.1
The extreme variation of temperature during the seven days	N 60 Y		14.3
The maximum temperature during the seven days	+ 9 +	- 0 4	92.3
			0/0
The mean relative humidity during the seven days		- 0.0	-86
			Inches
The total fall of rain from 8th to 14th July 1883			1.80

The mean temperature and humidity are obtained by applying to the mean of the 10h, 16h, and minimum readings a correction dependent on the range, and derived from the hourly observations at the Surveyor-General's Office, Chowringhee, in past years.

Matronological Office, India.

The 16th July 1888.

JOHN ELIOT,

For Meteorological Reporter to the Gout. of India.

#### MEMORANDA.

THE subjoined table presents the vital statistics of the first class Municipalities in Bengal for the week ending 30th June. The results to be gathered from it, contrasted with those disclosed in the table for the preceding week ending 23rd June, are the following. As this week closes the month, occasion will also be taken to review the results of the whole month.

(1.) The Municipalities which returned the highest birth and death-rates in this week

	Births.	Ratio per mille.		Deaths.		Ratio per mille.
Gya	 **	29.4	Gya			70.4
Burdwan -	 * *	29.0	Darjiling			59.3
Santipore	 	25.9	Mozufferpore		**	47.4
			Poori			38.5
			Durbhanga	**		36.2
			Patna			28-9
			Suburbs of Ca			27.1
			Chuprah			25.4
			Kishnaghur			25.0

(2.) The mortality from the different death-causes stood as follows as compared with that in the preceding week :-

			weeks	ending
			30th June.	23rd June.
Cholera		 	 3.8	4.5
Small-pox	**	 	 .2	.4
Fever		 	 10.2	11.7
Bowel-compla	ints	 * *	 3.6	4.5
Injury		 	 .6	.4
Other causes		 14.4	 6.6	69

These figures reveal that, excepting fractional increases in the death-rates from smallpox and violence, all the other diseases proved less fatal this week. Examining the death-rates from the above-mentioned diseases in all the weeks in June, it is seen that the only disease that prevailed, on the whole, with noticeable severity, was cholera, the death-rate from which was never below 4 per 1,000 of population, except during the week under review,

when it stood at the still high ratio of 3.8 per 1,000.

Of the above-mentioned diseases cholera, small-pox and fever exhibited the greatest

severity during this week in the following Municipalities:-

Ch	olera.				Small-pox			Fever.			
	Ratio per mille.					Ratio per mille.		Ratio per mille.			
Gya Mozufferpore Durbhanga Chuprah Suburbs of Cal	outta	20·5 12·2 6·3 5·9 4·5	Gya		1	4.1	Darjiling Gya Jossore		44·5 25·3 24·5		

Bowel-complaints proved greatly fatal in Durbhanga and Chupra, exhibiting a mortality represented by 118 and 9.8 persons per 1,000, respectively; and those diseases that are classed under the head of "Other causes" in Gya (15.7 per 1,000), in Poori (12.8 per 1,000), and in the Suburbs of Calcutta (9.7 per 1,000). Adverting again to the figures of all the weeks in June, we find that cholera persistently maintained the highest death-rates during all these weeks in Mozufferpore, Durbhanga, Gya and the Suburbs of Calcutta, in the order mentioned, and in Arrah and Howrah in the first and second weeks; small-pox only in Gya in the first, second and fourth weeks; and fever in Purneah in the first, second and third weeks, and in Darjiling, Gya and Jessore in the fourth week; and that all the other

diseases did not exhibit exceptional local severity during the whole of the period under review.

Class or Nationality.—The death-rate among Christians was the highest this week, (3 87 per 1,000 of population); Hindus furnished the next highest rate, viz. 26 6 per 1,000; and Mahomedans the lowest rate, the mortality among them amounting to 22.2 per 1,000.

Referring to Age, it is seen that during this week, while infants continued to perish in the highest proportion (223.6 per 1,000 of the living), old men died at the unprecedentedly low ratio of 29.5 per 1,000. The lowest death-rate was returned from among children aged 5 and under 10 years, who usually die in considerably larger numbers.

F. W. A. DEFABECK,

The 16th July 1883.

Officiating Sanitary Commissioner for Bengal.

			ICTS.		Burdwan	Didnapu.	Bug	C Service	"-{  Uterpare	Rowrah	bs Subarbs	Kishna	Bank Bank		Bam	Darilling	f Dacon	Nam .	CBilliago	Patr	Gys	Armsh	Mon	Darbhan	Chaprah	Bhagulpor	Kenghyr	- Purneh	Foori	CONTRACTOR S
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		ANT DE	-101-						1	-	1	1	1			1		1					-	1	1		-			Sal.
	, a			Males.	18.063	16,92	19,179	18,500	8.0%	96'00	147,205	19,618	11 500	4.890	10,768	4,579	42,782	7,506	0 15,840	78,762	88	. 20,96	23,08	88,774	. 98,044	29,640	18,154	8,468	13,027	704 953
	MODELLAPION	Or Una	EAST CO	Pennalos.	710,91 8	7 16,633	19,539	12,937	2,464	44,600		-	8 4,635 o 12.54e			2,439	87,379		10 8,799	60	0 87,831	22,505	19,658	off to	1,208	6 27,813	4 29,366	8 6,500	rinell	C) 681.460
65	NOIS			LeioT			0/1	18		110																		149		80 1.8±9.69n
	2000 TO	100			34,080	88,580	817,86	26,496	5,510	809,608	081,139	41,582	8,883	8.486	18,791	7,018	191'08	19,561	22,130	100,237	78,121	48,465	48,749	980'99	68,849	57,458	009,70	15,016	54.991	8
67	10 mm		No	Malos	0	10	4	09	1	15	\$				1		12	1	pù o	n 98	81	00	20	14	1	п	9	н	•	900
- 10		Y	NUMBER.	Pennalos,	19	00	-	-	1	mi	a	16	- AC	-	1	1	11	:	10	1 8	H	10	40	22	00	60	60	1	10	104
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10	RIPTHA		BATIO PER 1,000 OF POPULATION PER ANNUM.	Males,	15.7	12	*.0	8.8	7.6	1.4	9.0	1.3	191		9.5	-	7.8	1.4	1 1	12	18.0	3.6 12	80 80	0.11	90	7 0.0	5.8	9.0	4.9	8-2 7
		4,0	LATIO	Females. Total.	16.3	17 12	1.3	11. 12	9	14	0.0	12	108	-	90	7	T. 14	N) observ	101	7.8	14.4 29	12.0 16	8.7 12	9.4	10.00	17	91	10.	7 17.1	7.8 15.8
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16		79-11-1	- 180	Ratio of male births. 100 female births.	8	166	909	88	No female birche	100	158	R	140	:	100	1	100	-	os omale	births.	104	8	223	116	E	137	7.5	100	8	107
			Dep 1	Cholera	1	3	- 01	-		-	31			1	1	pol	-	1	1	. 60	08	.01	10	40	9	- 1	05	*	1	26
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-		indentify the second	DRATES F	Povers. Bowel-complaints.	- 40	80	1	*	-	000	9 :	97 .		-	94	9	ub .		n 4	. 13	37	1-	17	50	60	10	10	09	1	0 198
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	2.1	-5	heries .	All causes.		1	10	69	_	PH 09	13	0		_	1	1	7 1	m .	9 01	63	10	9	60	9	61	01	1 1	1	91	649
_			4	Cholera.	11 115	1	50	0.5 6	93	81	4.9	8 4	D 61	*	*		19	09 (	0 40	6.1	90.2	6.5	50 127	6.9	92	D	9	-	1 8	8.8
		Disse	RATIO PER	Small-pox,	:	ŧ	1	-	1	10	10	1	1 1	I	9	1	ŧ	-	1	11	4.1	1		do.	-	1	1	1	1	10
	MORTALITY	-95000	ER 1,06	Pevers.	77	15.4	4.6	7.8	1	60	200	10.0	18.9	24.5	85	54.5	92	1. 3	15.4	10.7	100	8.8	8 7	5.6	60	91	0.0	6.9	12	10.2
00	MILL		O OF PO	Bowel-complaints.	1	47	**	2.0	9.6	1	de de	1	I I	ŧ	90	1	***	1 4	1	90	1.5	1.0	3.7	11.8	80.66	60	1.00	1	9.6	2.6
H	\$100 A. CHIS		1,000 of Population Annum.	Infairy.	1.5	1	1	1	1	1.0	go go	! *	1 64	;	1	***	1	4-1	1	1.00	1	1	99 01	1	**	1	;	1	1	90
	ACCORDING		TON PER	Other diseases.	40	*** ***	4.0	8.9	I	1.0	100	0	00	1	9.7	2.4	10	7 :	1 1	71	15.7	P1 E-	90	2.0	8.9	8.1	P	10	19.6	9.9
100	0 TO			All causon.	16.8	18.6	1.91	17.7	18.8	* 9	1.12	0 0	19.4	24.3	10.5	59.3	1.0	60 S	111	188	\$.02	19.5	47.4	2.92	10.4	9.95	143	10.4	10.99	\$2.4
			COMPARISOR WITH PREVIOUS PERIODS.	Action of dashing portion of dashing pounds.  1,000 to provide the provides of dashing per popular, and the popular po	9	21.7	181	9.52	18.9	16.3	1.43	00 9 00 0	6.5		eldal	WAW 199		es to		83.4	9.99	25.9	0.59	1.59	28.33	95.50	127	8.69	80.0	4.83
			-	shonding week of		-	-	_		_			_		-		-	-				_				-	-		1	00
10			DRATHS.	Wales.		10	*	4	H	00	<del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del> <del>-</del>	B +	- to	01	*	10	12	01 0	0 10	*	3	10	97	· F.	14	16	0	61	1	351 9
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			RATIO PER 1.000 OF POPULATION PERANKUM.	Vernalos.	3 163	1	-8	8.25	1.	9.9	9 1		92 92	10	60	9.39 1.	9.0		81.9 9.7	8	4.	51.8.43	.1 80	32.3 40.	18:0	15 8	9 12	6 00	9	8.76
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			50 and under 60 years.	83.8	75.6	15.9	-	-	8.0	20.00	19	**	š	13	1.813	0.11		6.23	3	15.8	16.8	267	9.98	19.3	13	13.1		200	T A
		See.	Yearra,	1	6.72	-	15.4	1	11.4	10	97	6.81	1	9ª 150	2.091	12.4		0.52	16.6	60.15	-	8.03	1	16.6	16.5	94 600	0.83		14.8
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		POPULATI	20 and under 30 years,	6.8	21.5	27.	32	-	-	13	8		8	*	88	13	*****		.	9 %		_	_		6	8 251	-		
		80	15 und under 20 yests.	16.6	*****		***************************************	******	0.0	81	8.99	*******	148.1	*****	81.3	*******		0.53	-	14.0	33.0	17.	22	******	36.	13.8	223	1	19.8
		RATIO PER 1,006	10 and under 15 years.	*****	******	17-2	*****	1	6.1	17.6	41.1			1	*******	******	1	Beened		18.1	11.8	\$6.3	4.6	30.5	****	- 60		23.3	7.8.7
-	20	ATTO P	of and under 10 years.	1	13.9	6.65	-	201,500		20	9.11	18-0			6.88		and a	-	31.5	6 a 6	5	\$.69	9.98	16.9	6.0	7.5	-	******	13.0
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			Under I year.	10	1	250	1 295	1	88	6 240	I.e.	-	1	01	629	-	186	01	320	\$1 8 10 10	2 2	1 18 18	88	1 40	-	-	-	9 1067	1
T0-			years. 60 years and up-	85	93	-		,	-	00	. 4		10 .		1		*			00 (	PK +	- 4	0 95	0 ==			-		1:
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			and under 5 years	-	1	-	-	- 1		13	_	!	# P	1	-		1	- :	01	19 23					-		- 1		100
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		RATIO PER 1,006 OF POPULA- TION PER ANNUM.	Other chases.	-		-	-	-	- 1		1	1	-1		\$1.5	,		1	1		-		1						1
		O OP P	Mahomedana.	-	16.4	30.2	9.99	9	90	95 Mg	. 0.55	38.1	0 20		-	6.11	16.9	0.41	11.1	6.23	2 2 2					10	60	111	100
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## PUBLIC WORKS DEPARTMENT, IRRIGATION BRANCH, BENGAL.

Statement shewing the total amount of Traffic and Tolls on the Canals for the month of May 1883.

## ORISSA CIRCLE.

Taldundah Canal.

LENGTH OF CANAL OPEN-274 MILES.

75	3.	1 1	APPROXIMATE	TONNAGEO	BOATS.			Rate of
Number bonts		Nature of cargo.	Weight of Value of eargo.	Maunds.	Tons.	Ton- milenge	Tollage.	toil per ton-mile.

### LOCAL TRAFFIC.

### (1)-PRIVATE.

1			Mds.	Rs.	1			Rs. A. 2.	A. P.
441	Nil.					Nil.			
	Total	225	202-94	261211	125.00	+10.14	*****	Hiter	******
	Total of same month last year	***	311100	west	797 177	124.114	7417-0	*****	111111
	'MISCELLANROUS.	-							
	Nil.			-		Nil,			
	Total	***	*****	non	210111	P+1112	20106	111-11	PARTY.
	Total of same month last year	444	WATERNIA.	series	MARKE	10114		*****	10.111

## (2)-STORES AND MATERIALS FOR IRRIGATION WORKS.

	They make the same of the same		Mds.	Ra.				Rs. A. P.	
131	Nil.					Nil,			
di i	Total	(4xx)	H HE	111111	711111	*****	*****	******	Lines
,	Total of same month last year Miscellaneous.	***	-trans	141.500	******	*****	******	- James	*****
	Nil.					Nil.			
-2	Total	***	*****	78662	24/14	. Secret	187155	1696,64	*****
	Total of same month last year	***	:00.012	14.329	*****	barres	121040	324931	******

#### ABSTRACT.

	The company of the co	Mdu,	Re.	1	*	Rs. A. P.	
241 446	Private, including miscellaneous Government stores, including miscellaneous			Nil.			
San V	Grand Total	-Parcer	25 km/s	_ 143.177	16167	+(0)1	149724
1	Grand Total of same month last year	135074	111110	- Hors	(82),294	Annaha	

Мемо.		Rs. A. P.
Unrecovered balance on the 1st of the month	996 121 866 117 808 941	- 83 5 11
Amount credited in the accounts for the month	Total	83 5 11 83 5 11
Balance at the end of the mouth	114 115 PH	447097488